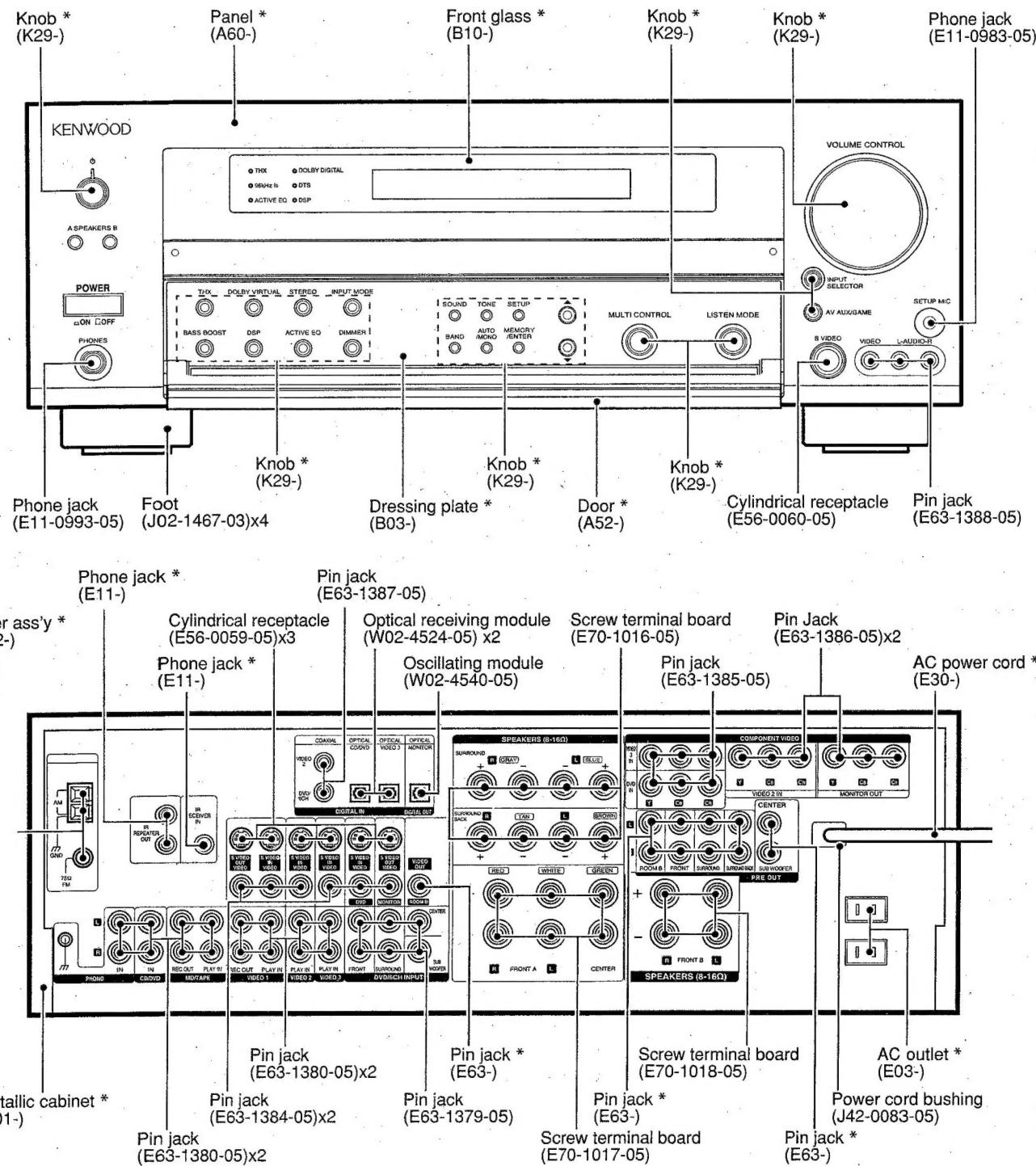


AUDIO VIDEO SURROUND RECEIVER
KRF-V8090D/V8090D-S/X9090D/X9090D-S
VR-9560/9560-S/9080/9080-S
SERVICE MANUAL

KENWOOD

© 2005-8 PRINTED IN KOREA
B51-5960-00 (K/K) 1455



Illust. is VR-9080.

* Refer to parts list on page 33.

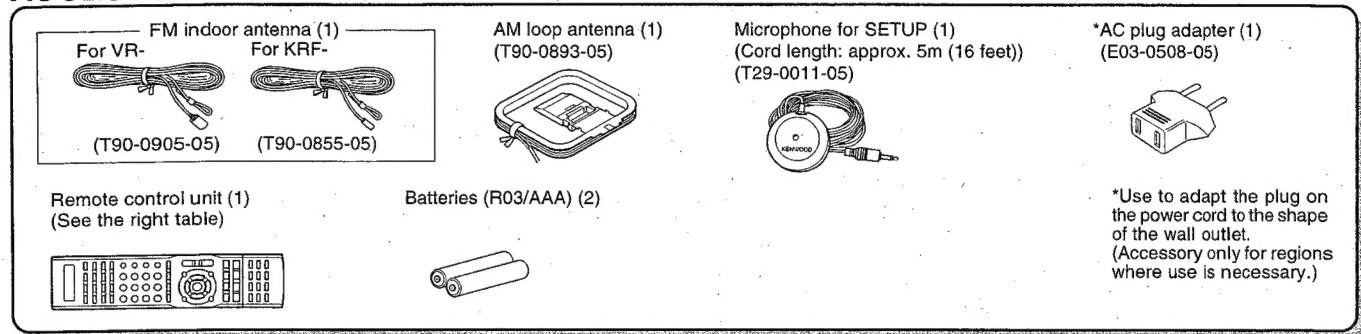
This product uses Lead Free solder.



KRF-V8090D/X9090D/VR-9560/9080

ACCESSORIES / CAUTIONS

ACCESSORIES



PCB vs MODEL

MODEL	ABB.	PREAMP	AUDIO	SUB	DISPLAY
KRF-V8090D	E1	X08-3392-72	X09-6962-72	X13-7962-72	X14-7902-72
KRF-V8090D-S	E2	X08-3390-71	X09-6962-72		X14-7900-72
KRF-V8090D-S	X2	X08-3390-71	X09-6960-72		X14-7902-73
KRF-X9090D	E3	X08-3392-73	X09-6962-72		X14-7902-91
KRF-X9090D	Y3	X08-3392-91	X09-6960-72		X14-7902-73
KRF-X9090D-S	E4	X08-3392-73	X09-6962-72	X13-7962-73	X14-7900-73
KRF-X9090D-S	X4	X08-3390-13	X09-6960-72		X14-7902-91
KRF-X9090D-S	Y4	X08-3392-91			X14-7900-13
VR-9080	K5,P5				
VR-9080-S	K6,P6	X08-3390-13	X09-6960-11	X13-7960-13	X14-7900-13
VR-9560	K7,P7				
VR-9560-S	K8,P8			X13-7960-14	X14-7980-10

REMOTE CONTROL vs MODEL

MODEL	DESTINATION	PARTS #	CONTROLL #
KRF-V8090D	E	A70-1672-05	RC-R0829E
KRF-V8090D-S	E	A70-1672-05	RC-R0829E
KRF-V8090D-S	X	A70-1672-05	RC-R0829E
KRF-X9090D	E	A70-1676-05	RC-R0918E
KRF-X9090D	Y	A70-1675-05	RC-R0918
KRF-X9090D-S	E	A70-1676-05	RC-R0918E
KRF-X9090D-S	X	A70-1676-05	RC-R0918E
KRF-X9090D-S	Y	A70-1675-05	RC-R0918
VR-9080	K,P	A70-1675-05	RC-R0918
VR-9080-S	K,P	A70-1675-05	RC-R0918
VR-9560	K,P	A70-1671-05	RC-R0829
VR-9560-S	K,P	A70-1671-05	RC-R0829



6CH INPUT

CAUTIONS

Resetting the Microcomputer

The microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

- Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

For the U.S.A. and Canada

Unplug the power cord from the wall outlet, then plug it back in while holding down the **POWER ON/STANDBY** key.

For other countries

With the power cord plugged in, turn the **POWER ON/OFF** key OFF. Then, while holding down the **POWER ON/STANDBY** key, press **POWER ON/OFF** key.

Memory back up function

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet for approximately 1 day.

- Power mode
- Input selector settings
- Speaker ON/OFF
- Volume level
- BASS, TREBLE, INPUT level
- TONE ON/OFF
- LOUDNESS ON/OFF
- Dimmer level
- Speaker settings
- Input mode setting
- Sound mode settings
- Broadcast band
- Frequency setting
- Preset stations
- Tuning mode
- ACTIVE EQ mode
- GAME mode setting

KRF-V8090D/X9090D/VR-9560/9080

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT SETTINGS	ALIGNMENT POINTS	FIG.
AUDIO SECTION		SPEAKER : A					
<1>	IDLE CURRENT *		CN11, FL ch. CN10, FR ch. CN14, SL ch. CN13, SR ch. CN12, C ch. CN15, SBL ch. X09(A/4) CN706, SBR ch. X13(F/6)	(FRONT 2ch MODE) Volume: Minimum	VR1(FL) VR2(FR) VR3(SL) VR4(SR) VR5(CENTER) VR6(SBL) X09(A/4) VR702(SBR) X13(F/6)	Adjust every potentiometer 10 minutes later after turned the power on.	

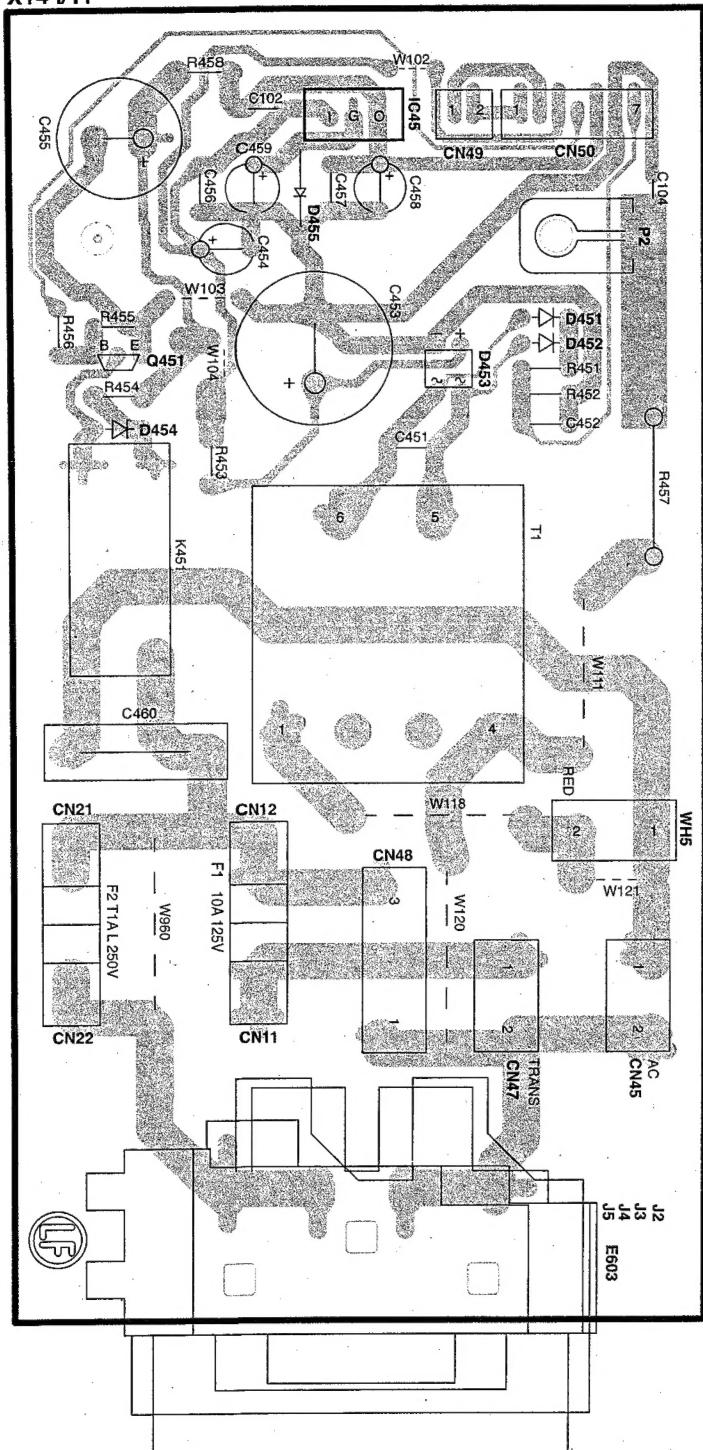
* Idling Current Adjustment

All power amplifier stage need idling current adjustment after the installation of TRAIT transistor.

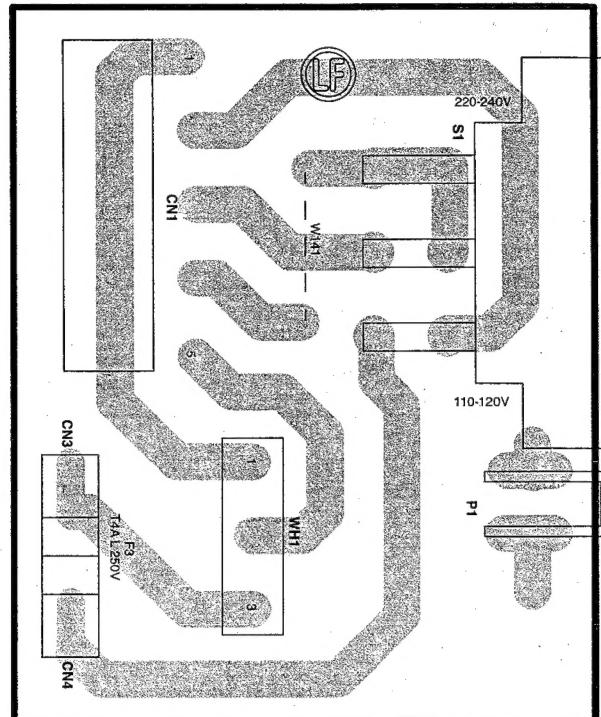
1. Connect a voltmeter to CNs with the correct polarity as indicated by the PCB silk print.
2. Adjust the preset, VRs to get 8.8mV (Idling current = 20mA) at the voltmeter reading.
3. Repeat step few times for all channels.

PC BOARD (Component side view)

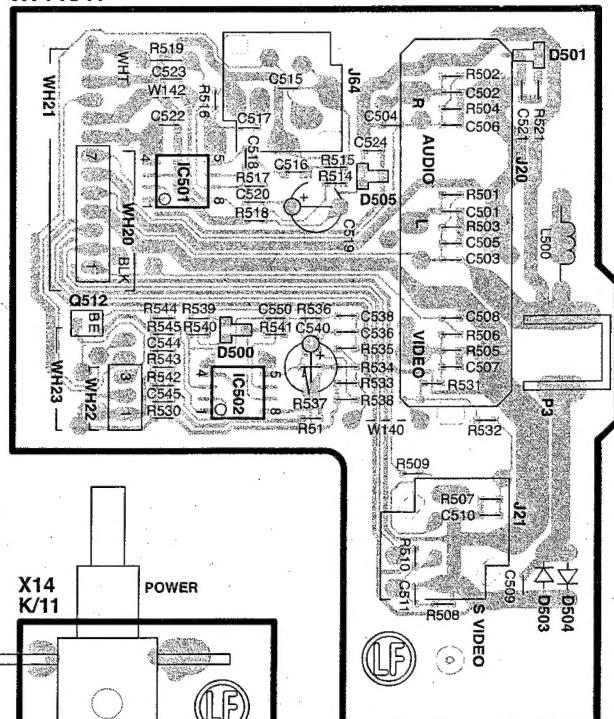
X14 V/11



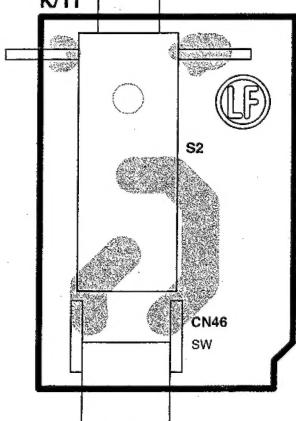
X14 J/11



X14 H/11

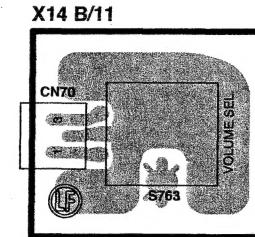
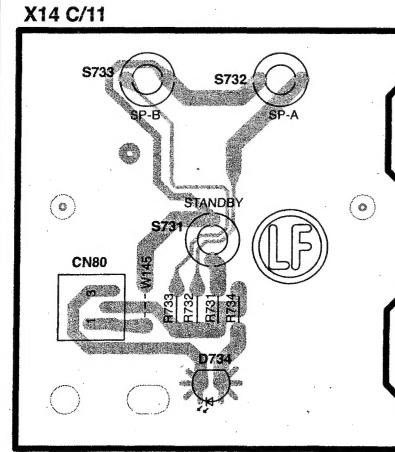
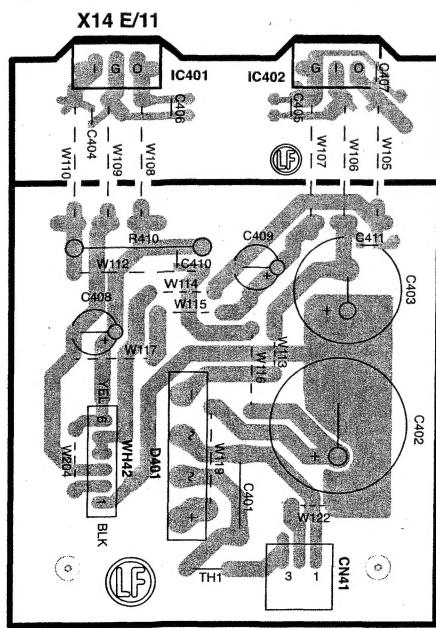
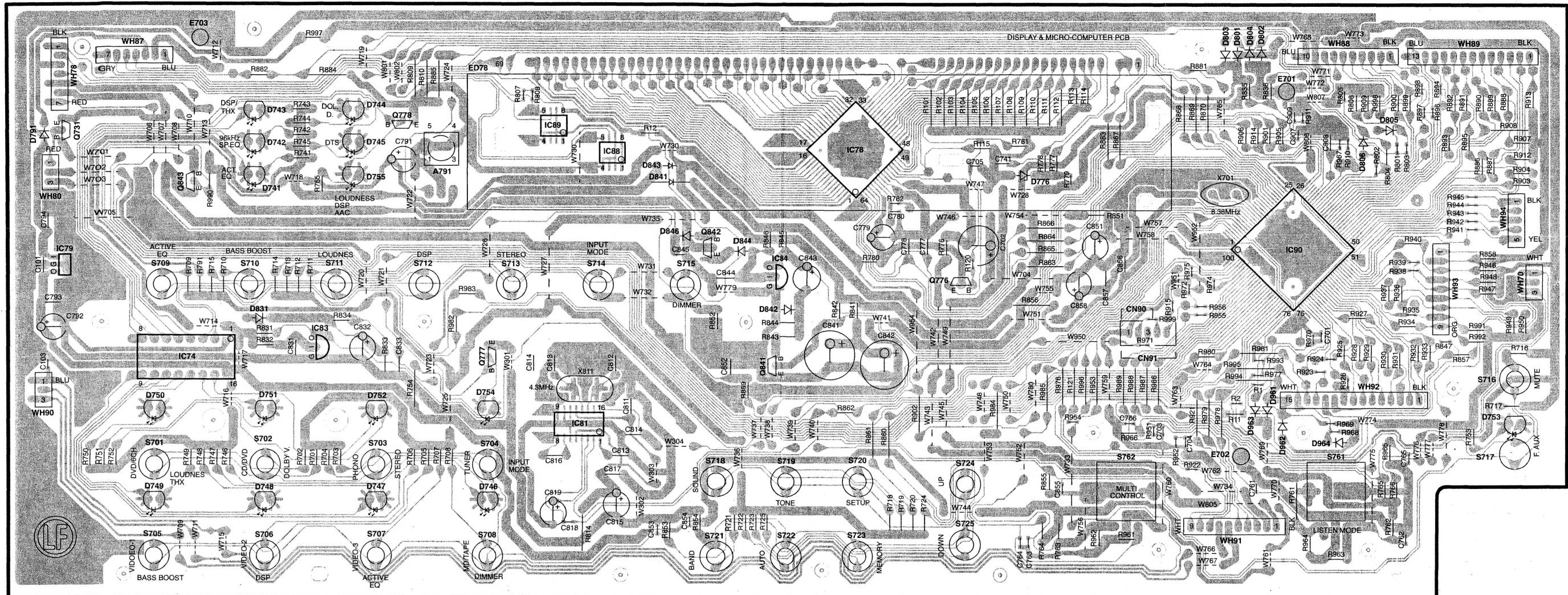


X14
K/11



PC BOARD

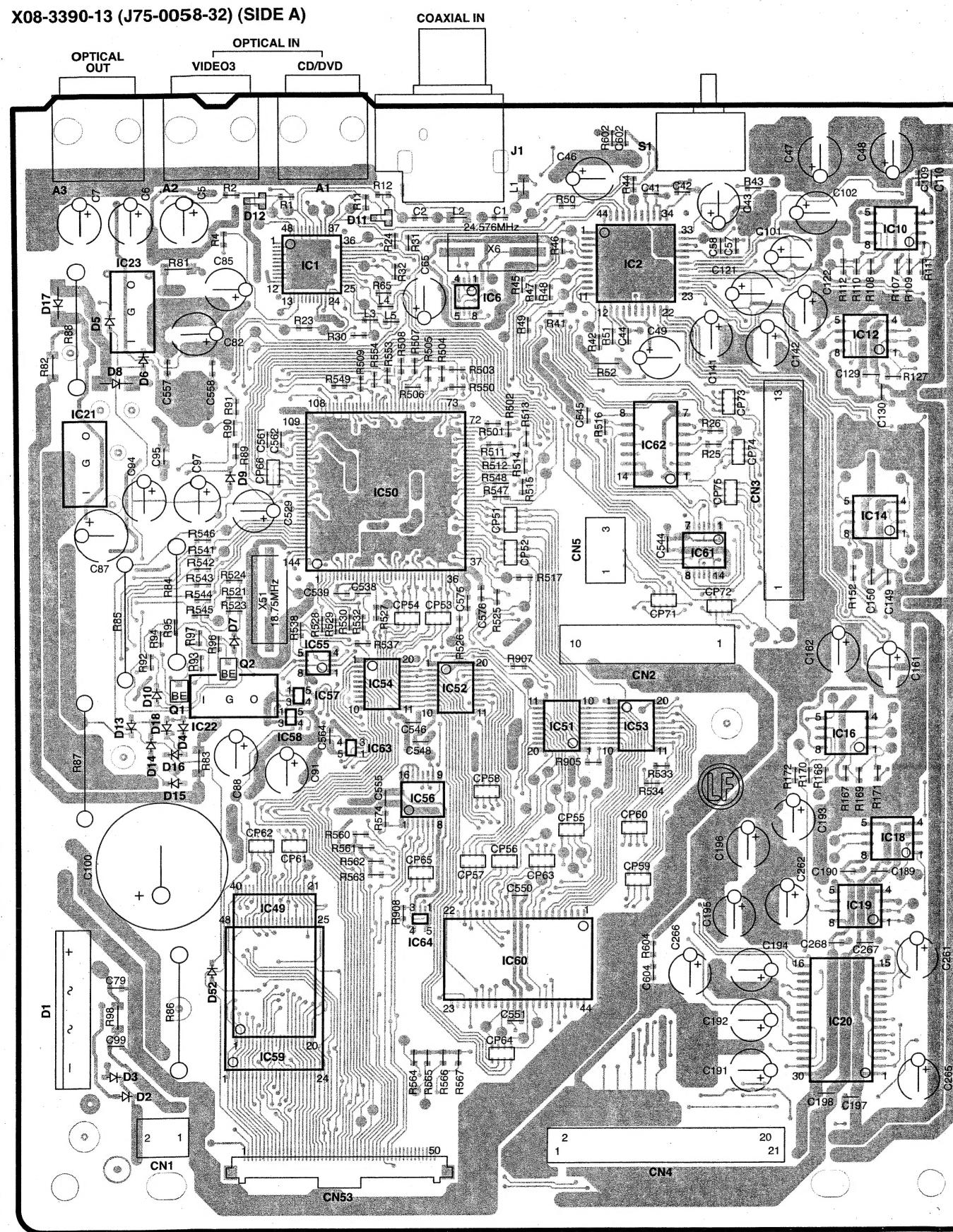
X14-7900-13 & X14-7980-10 A/11 (J75-0061-31)



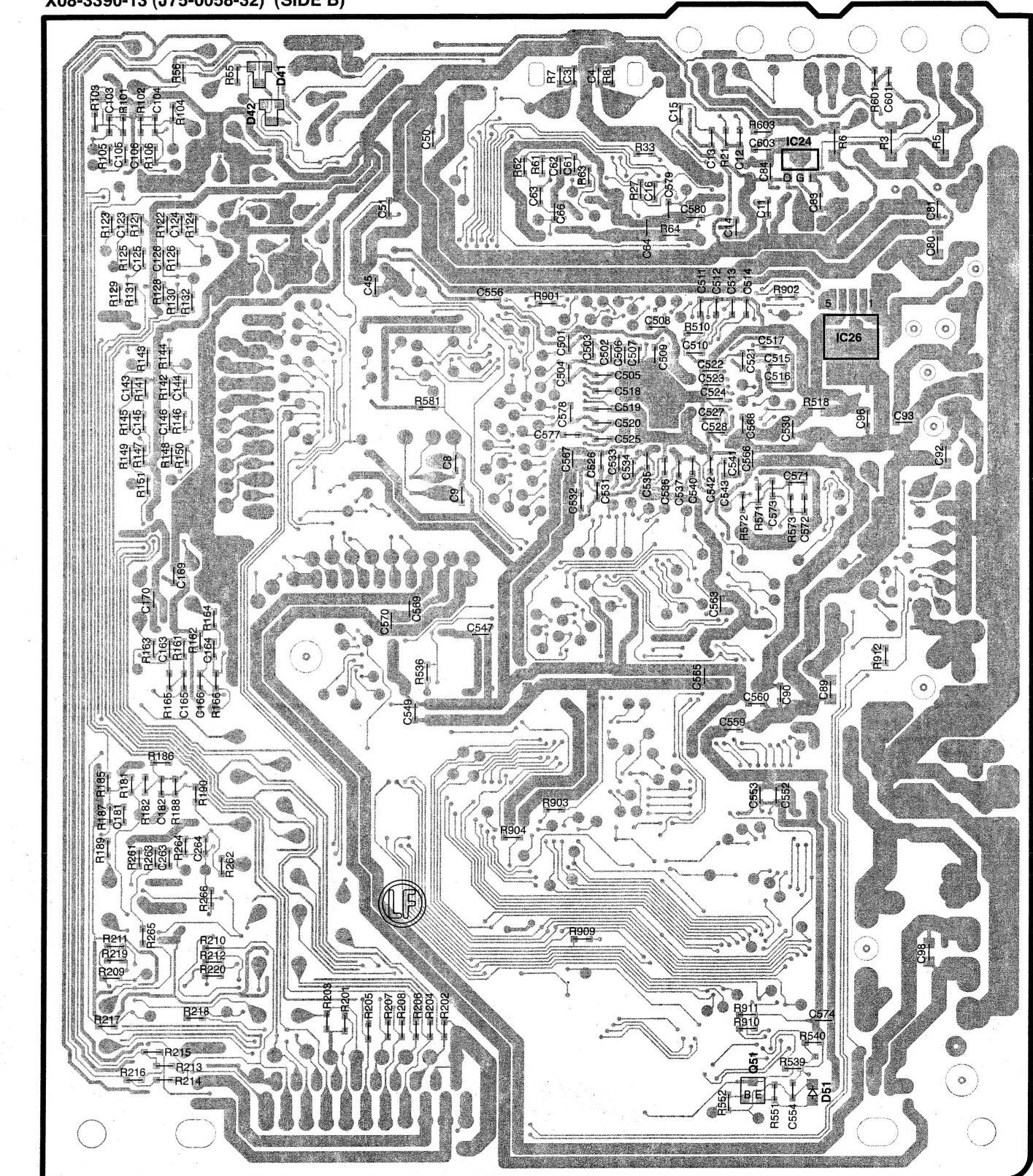
Refer to the schematic diagram for the value of resistors and capacitors

PC BOARD

X08-3390-13 (J75-0058-32) (SIDE A)



X08-3390-13 (J75-0058-32) (SIDE



Z

AA

AB

AC

AD

AE

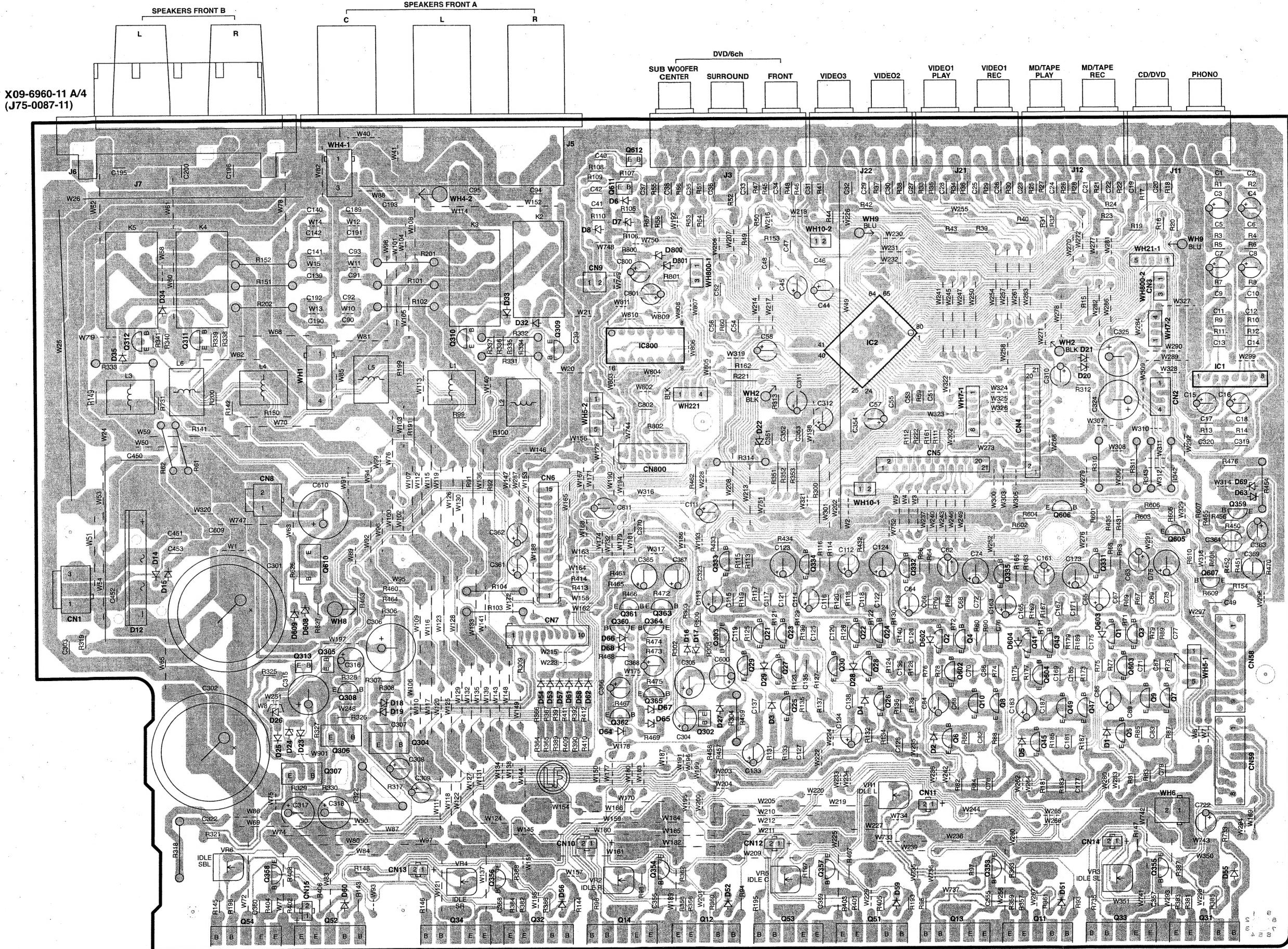
AF

AG

AH

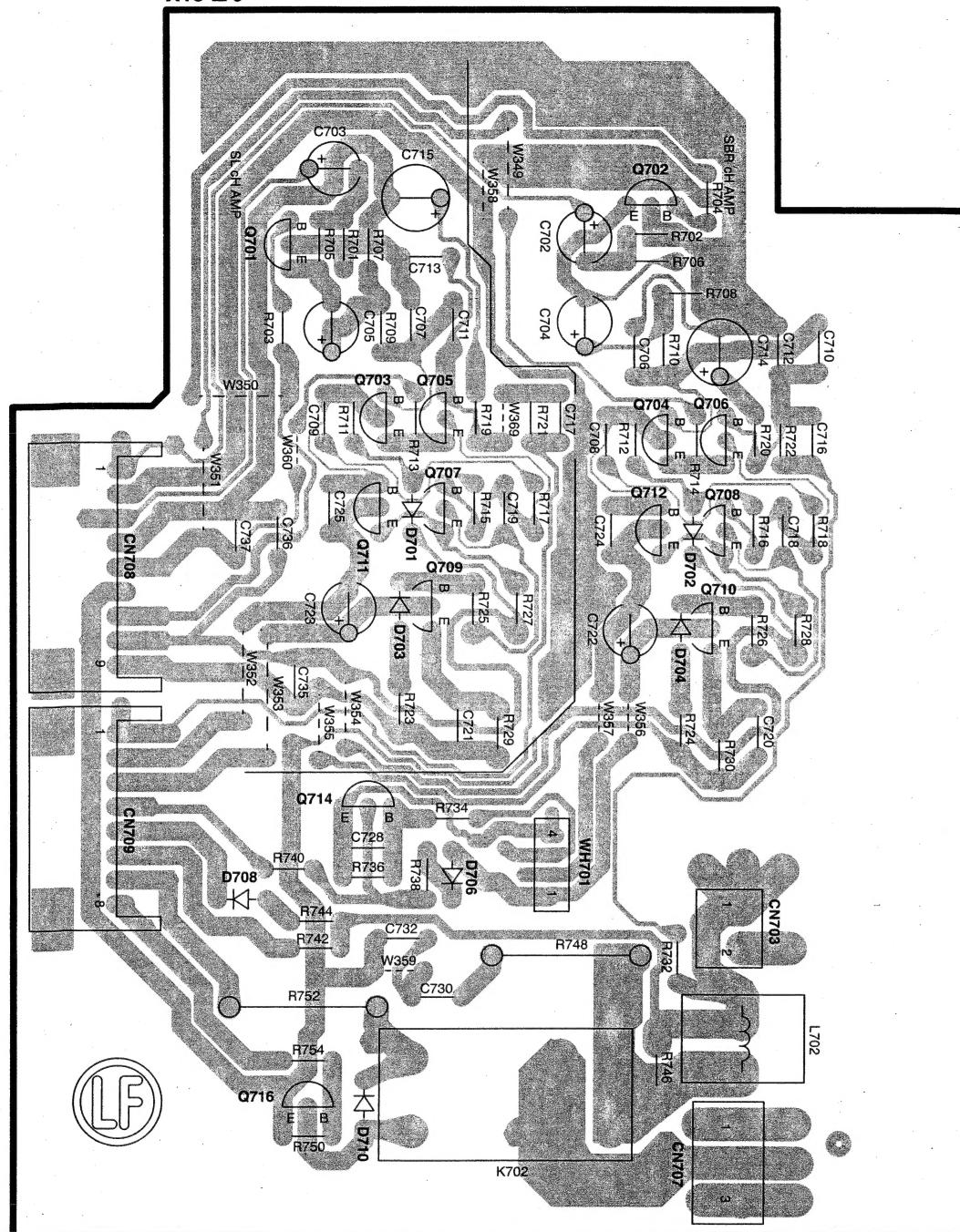
AI

PC BOARD

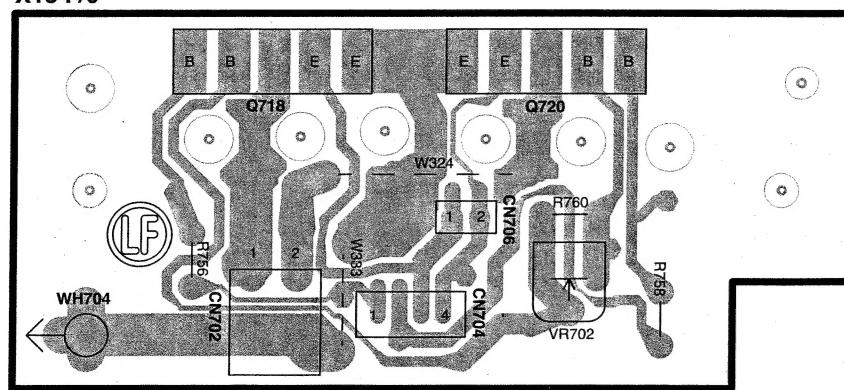


PC BOARD

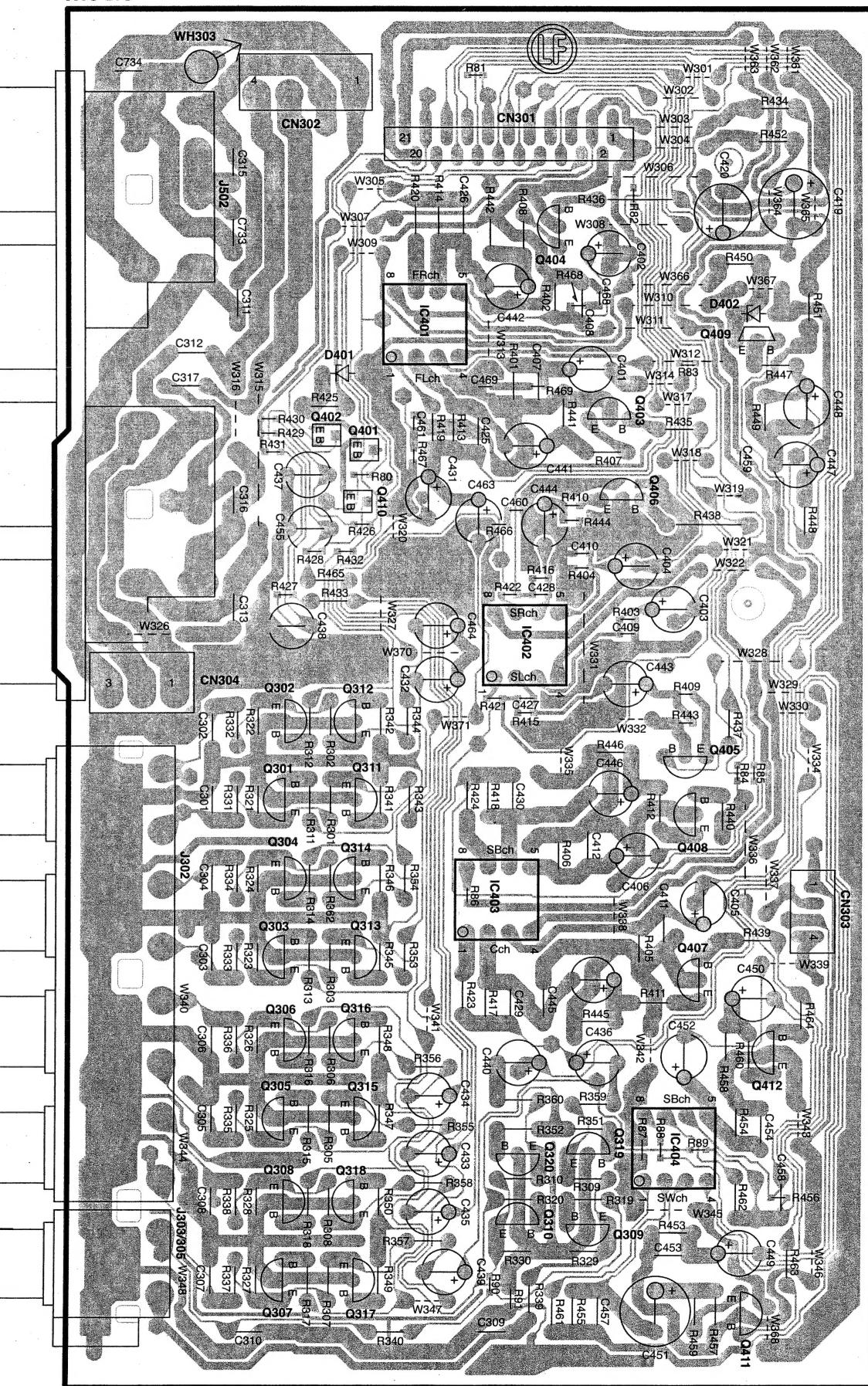
X13 E/6



X13 F/6

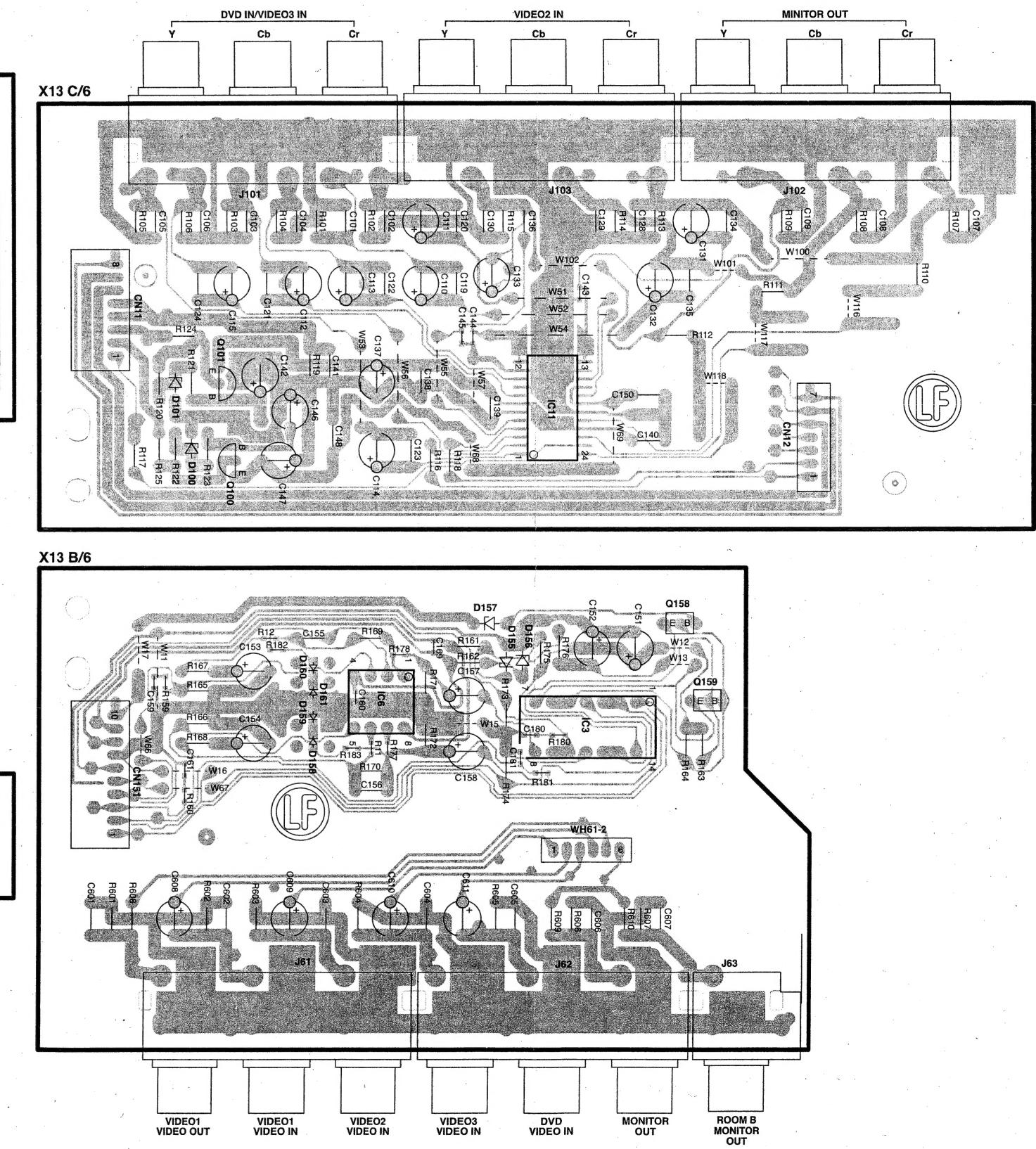
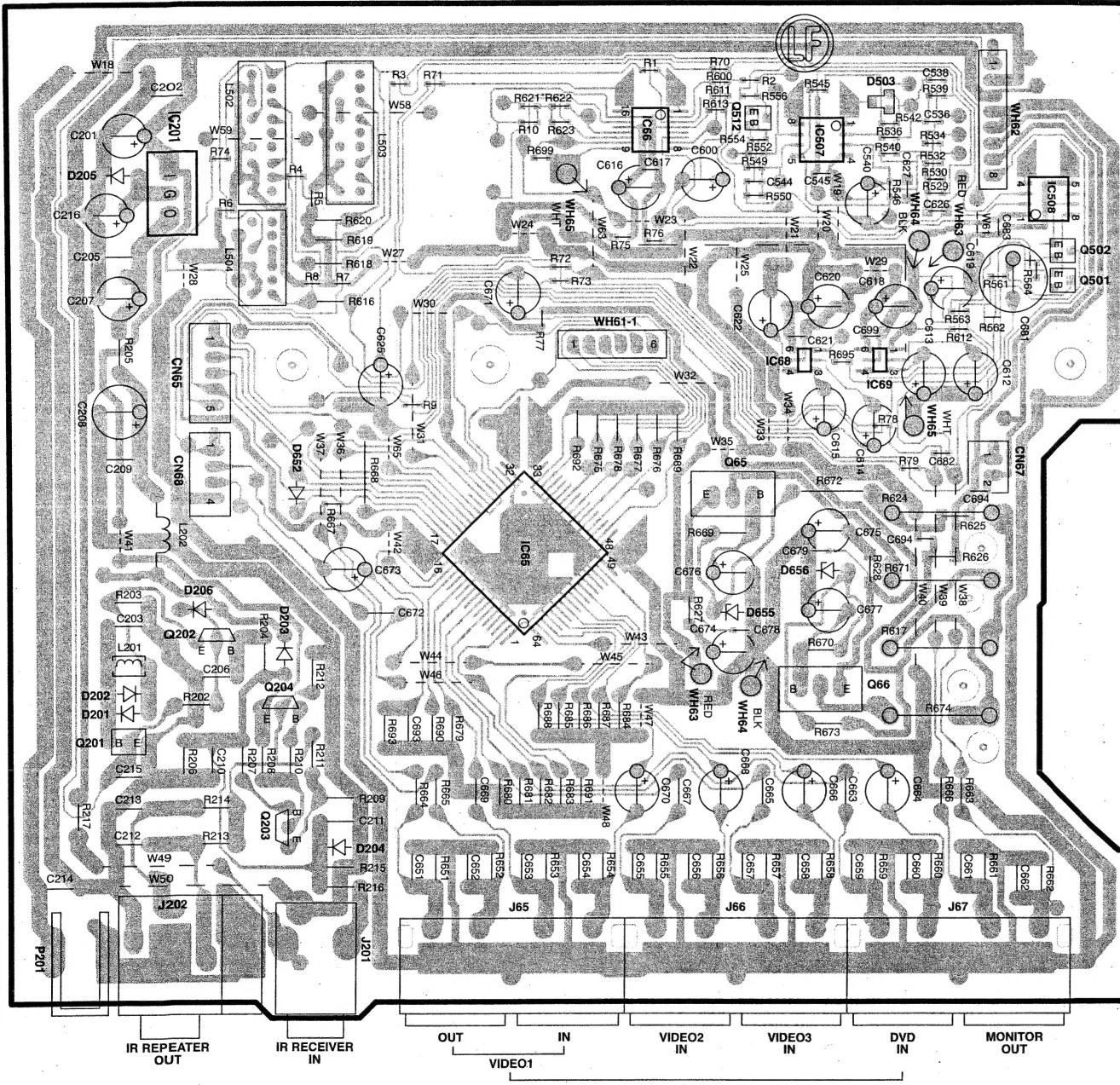


X13 D/6



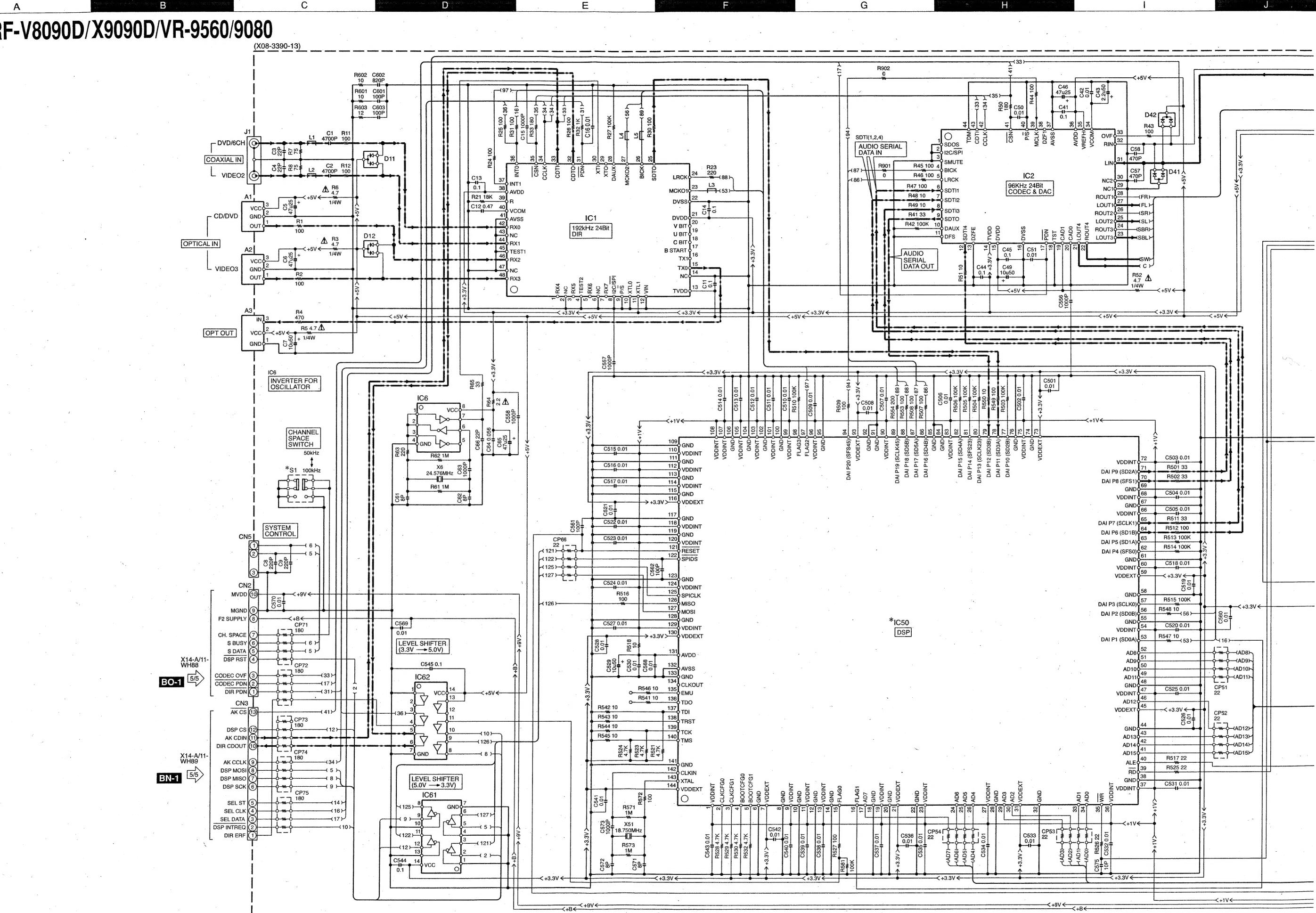
PC BOARD

X13-7960-13 A/6 (J75-0082-11)

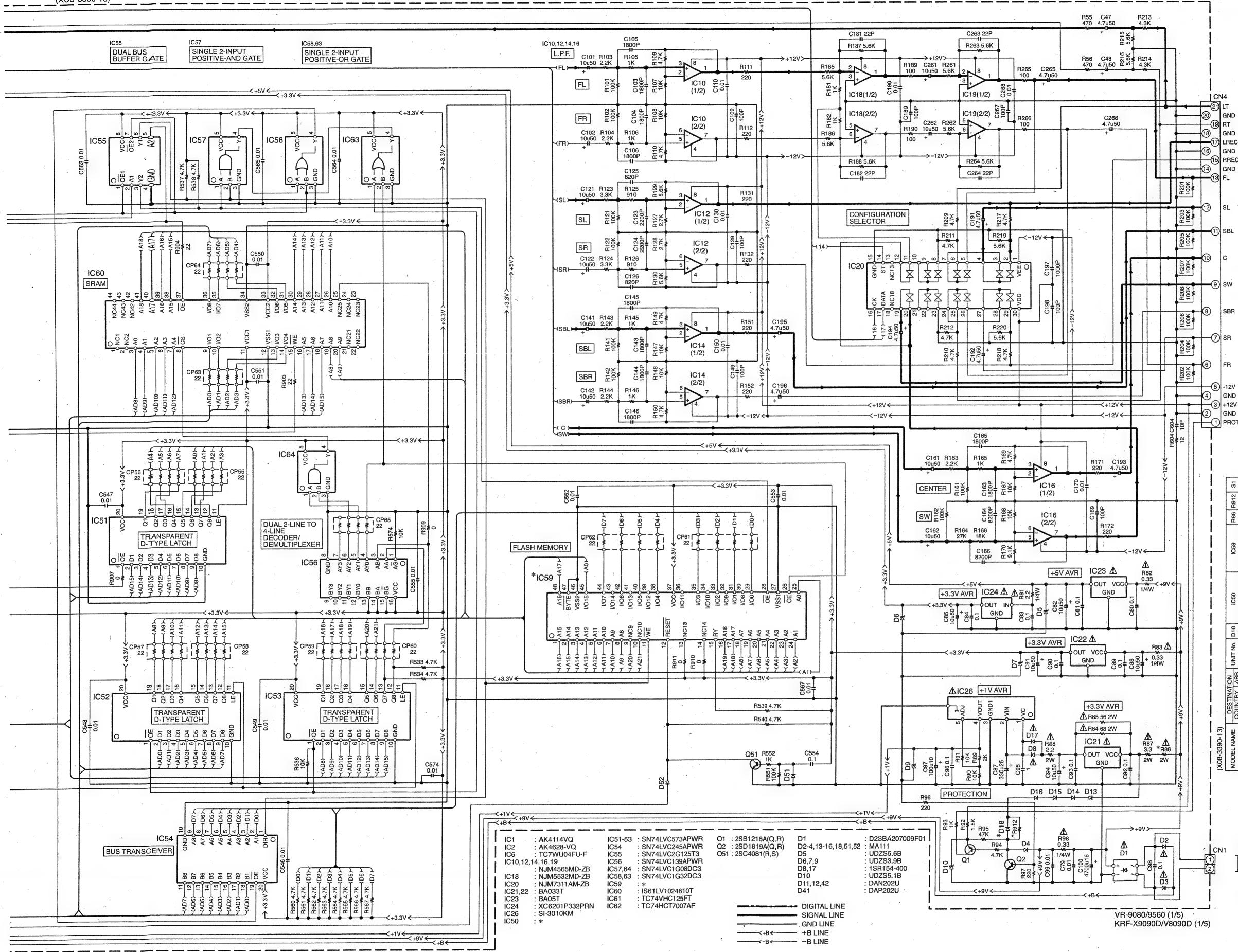


KRF-V8090D/X9090D/VR-9560/9080

(X08-3390-13)



(X08-3390-13)



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

MODEL NAME	DESTINATION COUNTRY	ABB.	UNIT No.	D18	IC50	R66	R91	S1
KRF-V8090D	EUROPE	E1	2-72	NO	ADSST-AVR-1105	LHF1612-BEFA	3.3	YES
KRF-V8090D	EUROPE	E2	2-72	NO	ADSST-AVR-1105	LHF1612-BEFA	3.3	YES
KRF-X9090D	AUSTRALIA	X2	0-71	NO	ADSST-AVR-1105	LHF1612-BEFA	3.3	NO
KRF-X9090D	EUROPE	E3	2-73	NO	ADSST-AVR-1100	LHF1612-BEFA	3.3	YES
KRF-X9090D	PX	Y3	2-91	YES	ADSST-AVR-1100	LHF1612-BEFA	3.3	NO
KRF-X9090D	EUROPE	E4	2-73	NO	ADSST-AVR-1100	LHF1612-BEFA	3.3	YES
KRF-X9090D	AUSTRALIA	X4	0-13	NO	ADSST-AVR-1100	LHF1612-BEFA	2.2	YES
KRF-X9090D	PX	Y4	2-91	YES	ADSST-AVR-1100	LHF1612-BEFA	3.3	NO
VR-9080	CANADA	P5	0-13	NO	ADSST-AVR-1100	LHF1612-BEFA	2.2	YES
VR-9080	CANADA	P6	0-13	NO	ADSST-AVR-1100	LHF1612-BEFA	3.3	NO
VR-9080	CANADA	P7	0-14	NO	ADSST-AVR-1105	LHF1612-BEFA	2.2	YES
VR-9080	CANADA	P8	0-14	NO	ADSST-AVR-1105	LHF1612-BEFA	3.3	NO

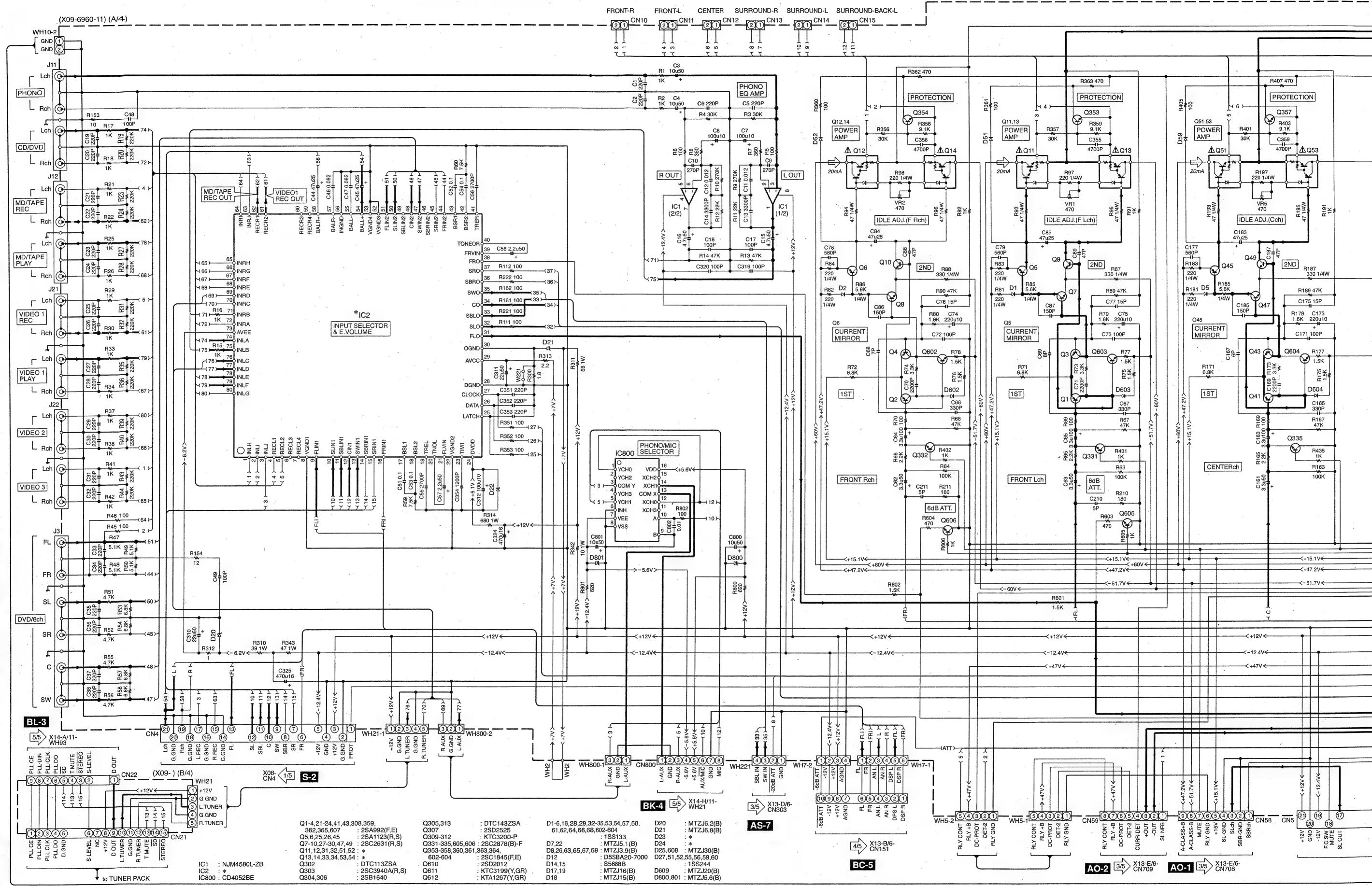
to POWER TRANSFORMER
BY-3
BZ-3

VR-9080/9560 (15)
KRF-X9090D/V8090D (1/5)

IC1 : AK4114VQ	IC51-53 : SN74LVCS73APWR	Q1 : 2SB1218A(Q,R)	D1 : D2-4,13-16,18,51,52 : MA111					
IC2 : AK4628-VQ	IC54 : SN74LVC245APWR	Q2 : 2SD1819A(Q,R)	D2 : UDZ55.6B					
IC6 : TC7WU04FU-F	IC55 : SN74LVC2G125T3	Q3 : 2SC4081(R,S)	D3 : UDZ55.6B					
IC10,12,14,16,19	IC56 : SN74LVC139APWR	Q4 : 1SR154-400	D4 : UDZ55.6B					
IC18 : NJM4565MD-ZB	IC57,64 : SN74LVC1G08DC3	Q5 : 1SR154-400	D5 : UDZ55.6B					
IC20 : NJM7311AM-ZB	IC58,63 : SN74LVC1G32DC3	Q6 : *	D6,7,9	D6,7,9	D6,7,9	D6,7,9	D6,7,9	D6,7,9
IC21,22 : BA033T	IC59 : *	Q7 : IS61LV1024810T	D7 : UDZ55.6B					
IC23 : BA05T	IC60 : IS61LV1024810T	Q8 : TC74VHC125FT	D8,17	D8,17	D8,17	D8,17	D8,17	D8,17
IC24 : XC6201P332PRN	IC61 : TC74VHC125FT	Q9 : TC74VHC125FT	D9,10	D9,10	D9,10	D9,10	D9,10	D9,10
IC26 : SI-3010KM	IC62 : TC74VHC17007AF	Q10 : TC74VHC17007AF	D11,12,42	D11,12,42	D11,12,42	D11,12,42	D11,12,42	D11,12,42

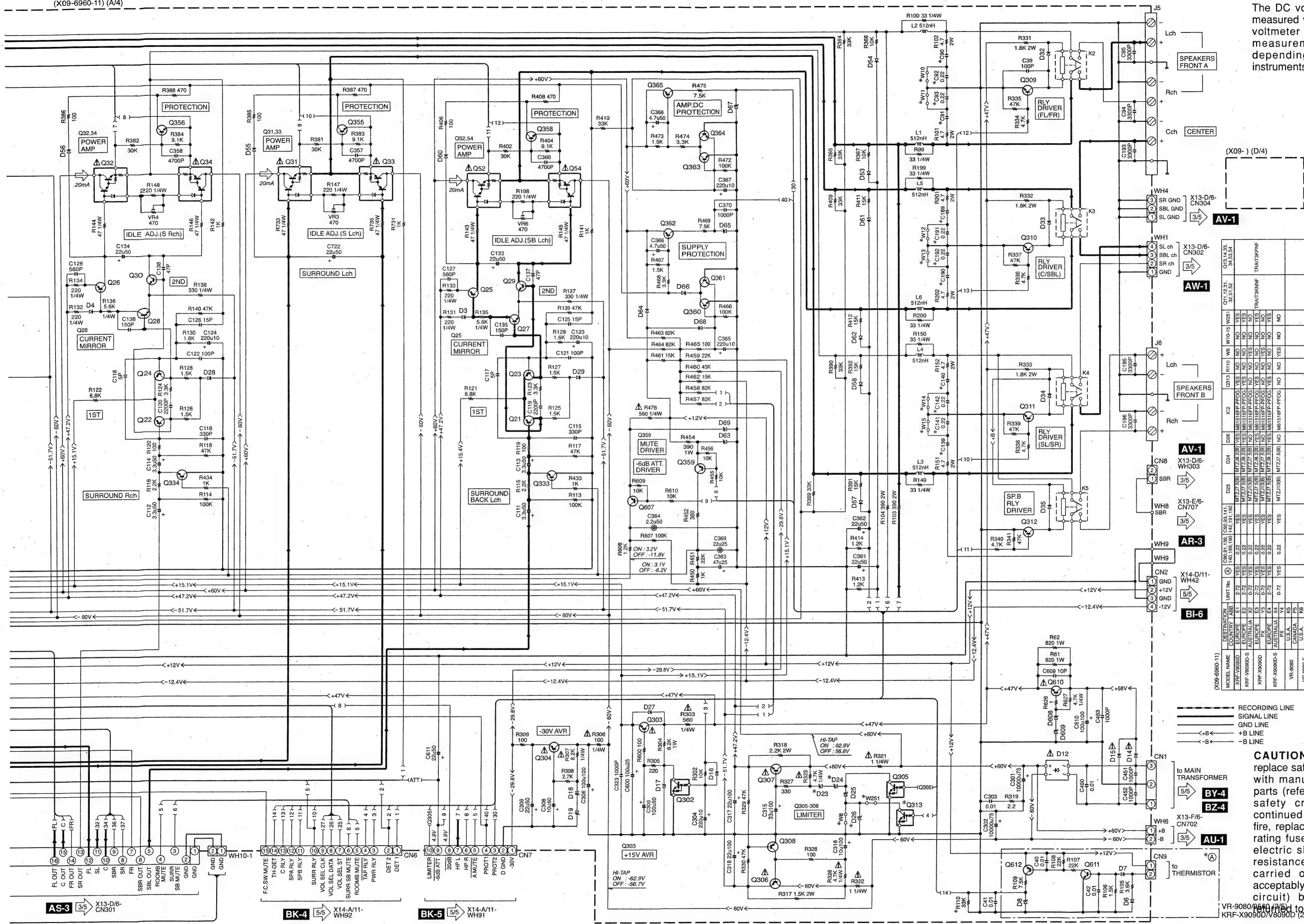
DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
-B LINE

KRF-V8090D/X9090D/VR-9560/9080



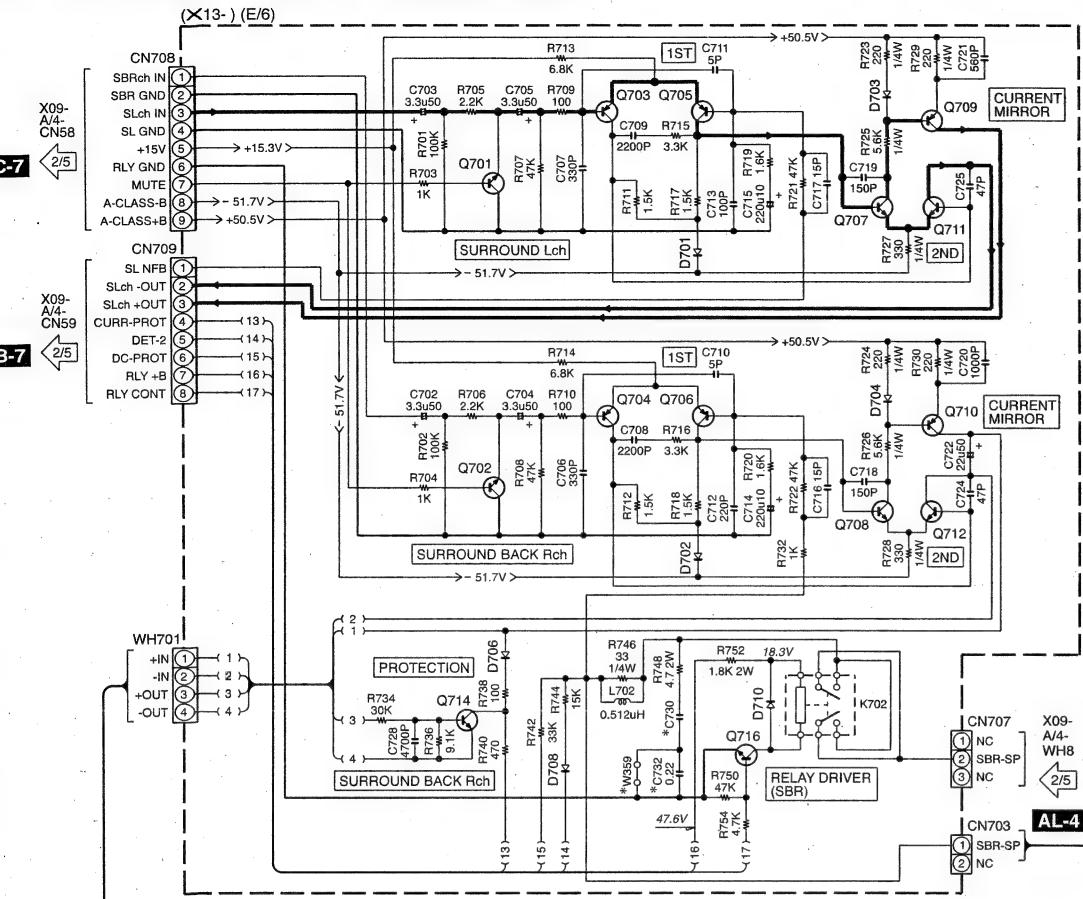
KRF-V8090D/X9090D/VR-9560/9080

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KRF-V8090D/X9090D/VR-9560/9080

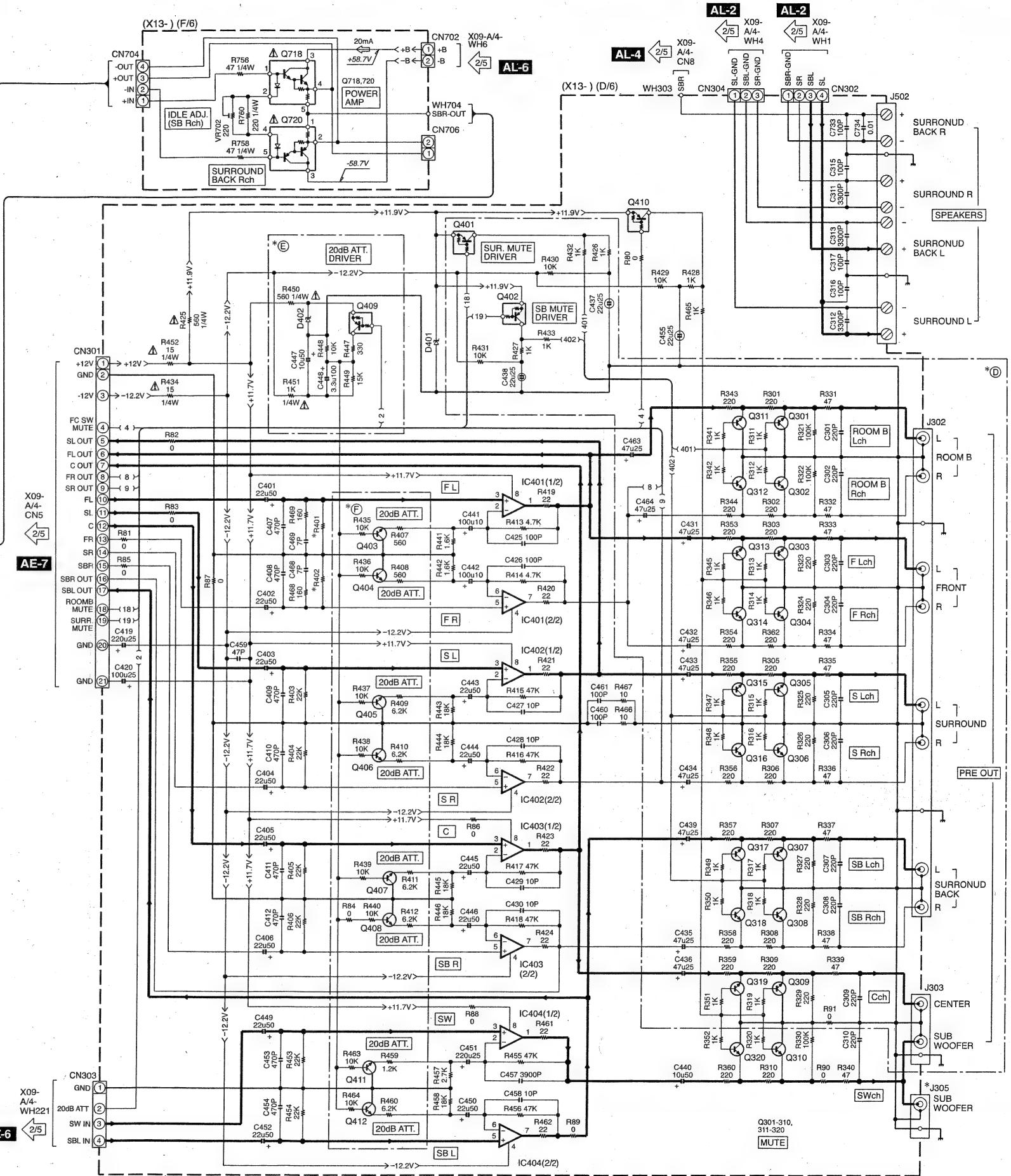


MODEL NAME		DESTINATION COUNTRY	UNIT No.	(D)	(E)	(F)	C730	C732	J305	R401 402	W359	Q718	Q720
KRF-V8090D	EUROPE	E1	2-72	NO	0.22	YES	YES	100K	NO				
KRF-V8090D-S	EUROPE	E2	2-72	NO	0.22	YES	YES	100K	NO				
KRF-X9090D	AUSTRALIA	X1											
KRF-X9090D	EUROPE	E3	2-73	YES	0.22	YES	NO	18K	NO			TRAITSKNNF	TRAITSKPN
KRF-X9090D-S	EUROPE	E4	2-73	YES	0.22	YES	NO	18K	NO				
VR-9080	U.S.A.	K5											
VR-9080-S	CANADA	P5											
VR-9560	U.S.A.	K6											
VR-9560-S	CANADA	P6											
VR-9580-S	U.S.A.	K7											
VR-9580-S	CANADA	P7											
VR-9580-S	U.S.A.	K8											
VR-9580-S	CANADA	P8											
			0-13	YES	0.1	NO	NO	18K	YES				
			0-14	NO	0.1	NO	YES	100K	YES			TRAITSKNN	TRAITSKPN

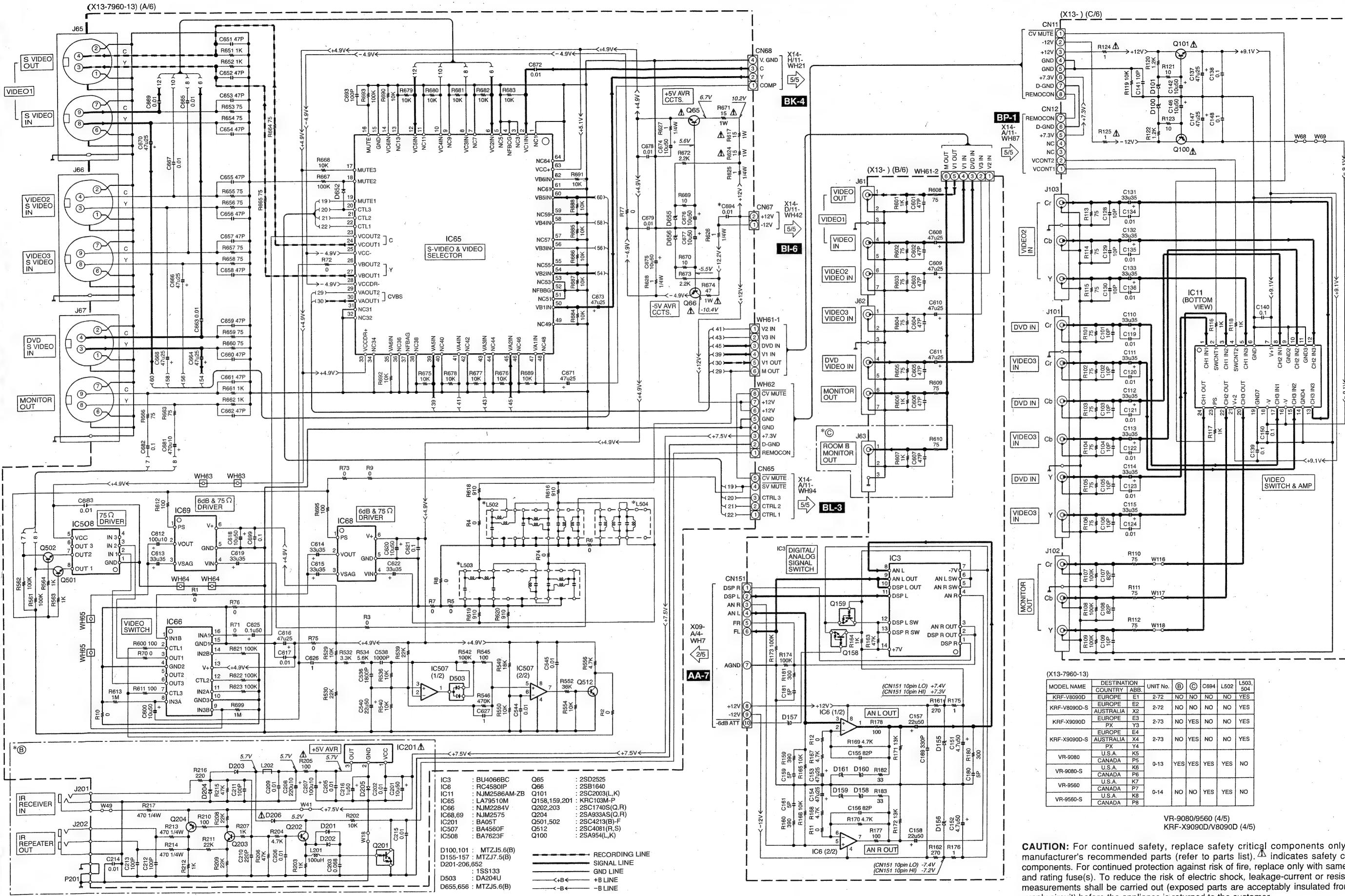
SIGNAL LINE
GND LINE
<+B < +B LINE

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

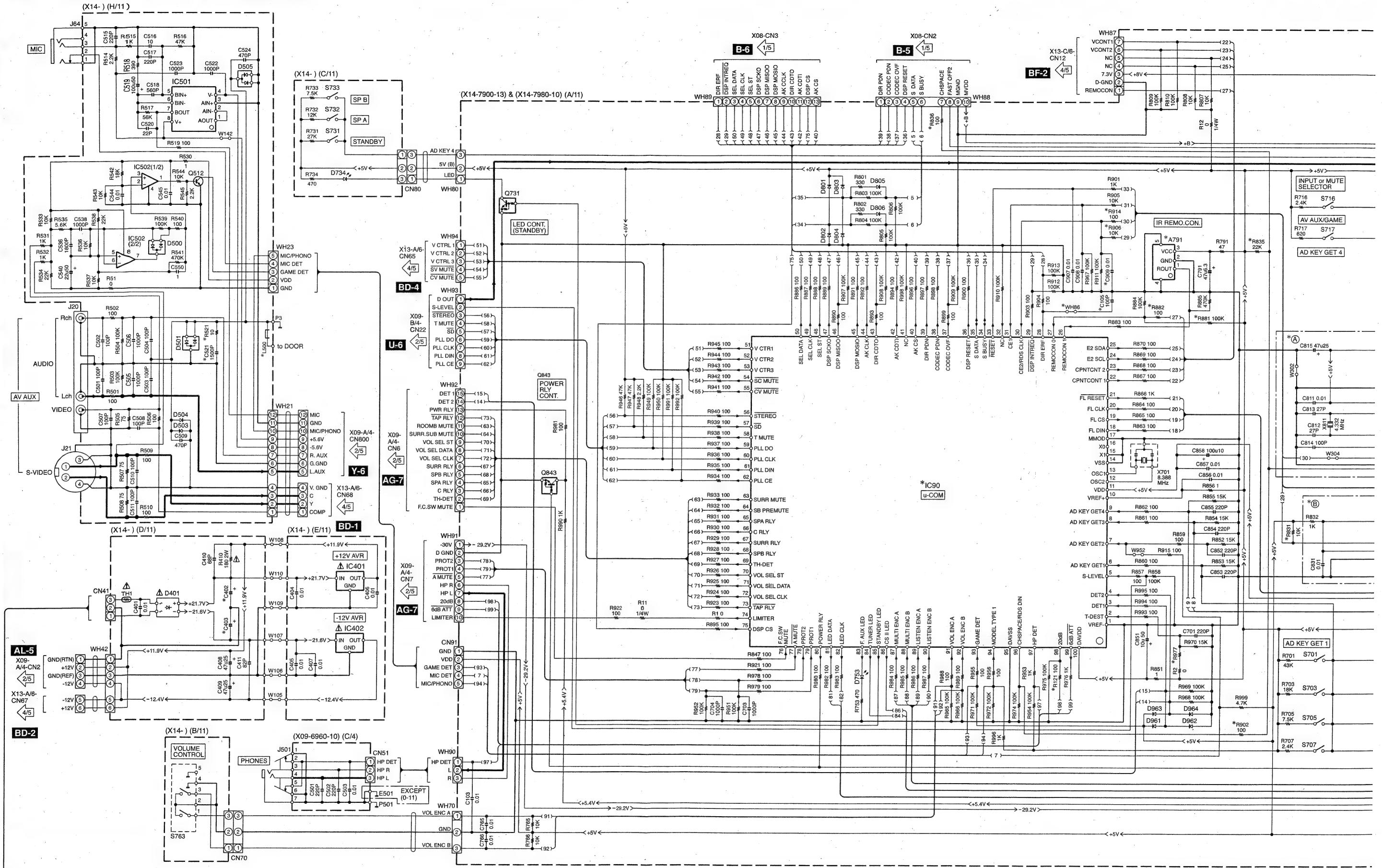


KRF-V8090D/X9090D/VR-9560/9080



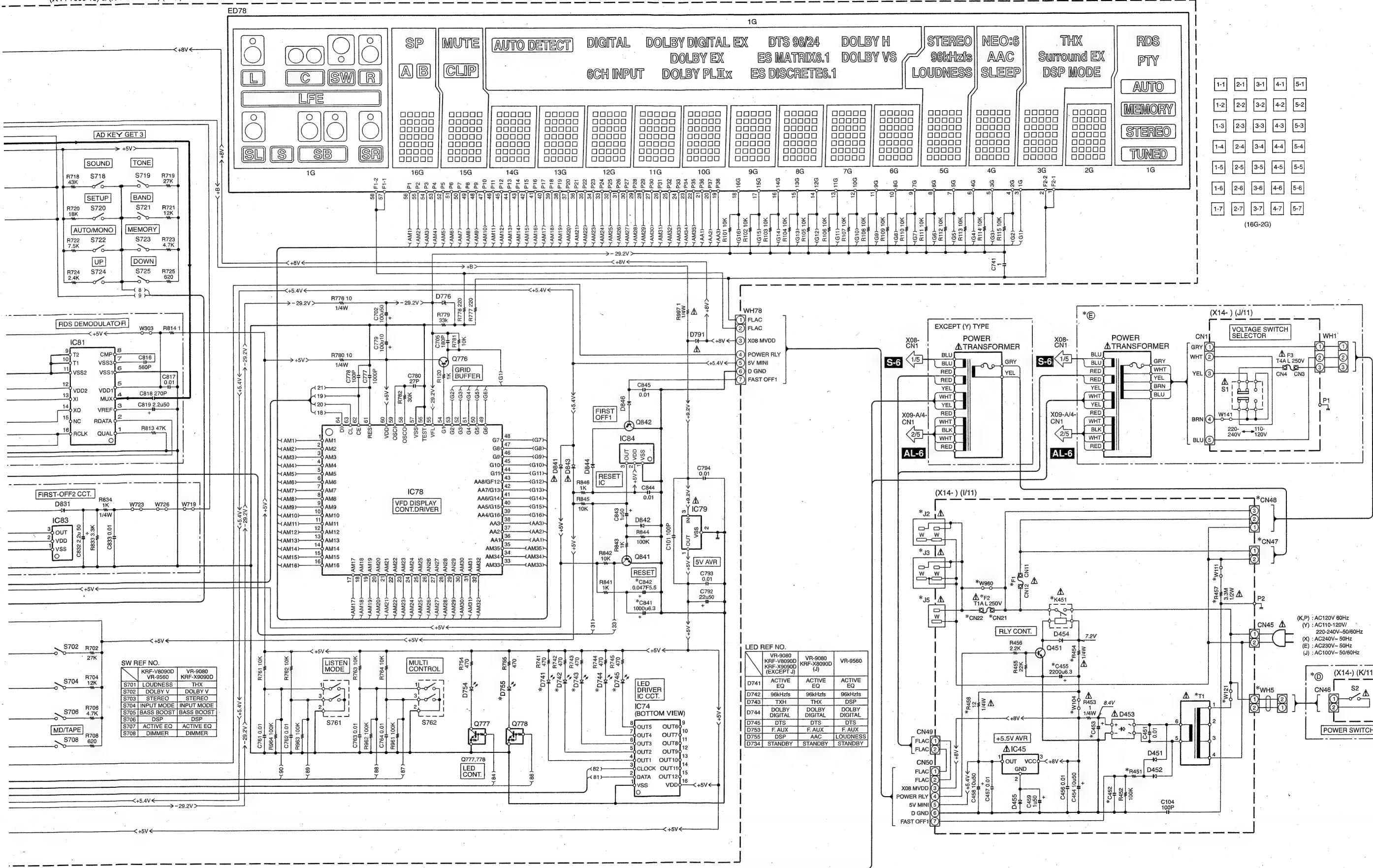
The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

KRF-V8090D/X9090D/VR-9560/9080



KRF-V8090D/X9090D/VR-9560/9080

(X14-7900-13) & (X14-7980-10) (A/11)



KRF-V8090D/X9090D/VR-9560/9080

ANODE CONNECTION															
1G	2G	3G	4G	5G	6-14G	15G	16G								
P1	[L]	1-1	1-1	1-1	1-1	1-1	1-1								
P2	[C]	2-1	2-1	2-1	2-1	2-1	2-1								
P3	[R]	3-1	3-1	3-1	3-1	3-1	3-1								
P4	[SR]	4-1	4-1	4-1	4-1	4-1	4-1								
P5	[SB]	5-1	5-1	5-1	5-1	5-1	5-1								
P6	[SL]	1-2	1-2	1-2	1-2	1-2	1-2								
P7	[S]	2-2	2-2	2-2	2-2	2-2	2-2								
P8	[SW]	3-2	3-2	3-2	3-2	3-2	3-2								
P9	[LFE]	4-2	4-2	4-2	4-2	4-2	4-2								
P10	[L]	5-2	5-2	5-2	5-2	5-2	5-2								
P11	[C]	1-3	1-3	1-3	1-3	1-3	1-3								
P12	[R]	2-3	2-3	2-3	2-3	2-3	2-3								
P13	[SR]	3-3	3-3	3-3	3-3	3-3	3-3								
P14	[SBR]	4-3	4-3	4-3	4-3	4-3	4-3								
P15	[SBL]	5-3	5-3	5-3	5-3	5-3	5-3								
P16	[SL]	1-4	1-4	1-4	1-4	1-4	1-4								
P17	[SW]	2-4	2-4	2-4	2-4	2-4	2-4								
P18	[AUTO DETECT]	3-4	3-4	3-4	3-4	3-4	3-4								
P19	[DIGITAL]	4-4	4-4	4-4	4-4	4-4	4-4								
P20	[6CH INPUT]	5-4	5-4	5-4	5-4	5-4	5-4								
P21	[DOLBY DIGITAL]	1-5	1-5	1-5	1-5	1-5	1-5								
P22	[DOLBY DIGITAL EX]	2-5	2-5	2-5	2-5	2-5	2-5								
P23	[DOLBY EX]	3-5	3-5	3-5	3-5	3-5	3-5								
P24	[DOLBY PL]	4-5	4-5	4-5	4-5	4-5	4-5								
P25	II	5-5	5-5	5-5	5-5	5-5	5-5								
P26	X	1-6	1-6	1-6	1-6	1-6	1-6								
P27	DTS	2-6	2-6	2-6	2-6	2-6	2-6								
P28	96/24	3-6	3-6	3-6	3-6	3-6	3-6								
P29	ES MATRIX6.1	4-6	4-6	4-6	4-6	4-6	4-6								
P30	ES DISCRETE6.1	5-6	5-6	5-6	5-6	5-6	5-6								
P31	DOLBY H	1-7	1-7	1-7	1-7	1-7	1-7								
P32	DOLBY VS	2-7	2-7	2-7	2-7	2-7	2-7								
P33	RDS	3-7	3-7	3-7	3-7	3-7	3-7								
P34	PTY	4-7	4-7	4-7	4-7	4-7	4-7								
P35	AUTO	5-7	5-7	5-7	5-7	5-7	5-7								
P36	MEMORY	—	THX	NEO:6	STEREO	—	MUTE	SP							
P37	STEREO	—	Surround EX	AAC	96kHz	—	CLIP	[A]							
P38	TUNED	—	DSP MODE	SLEEP	LOUDNESS	—	—	[B]							

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

(X14-7900-13)

MODEL NAME	DESTINATION	UNIT No.	(A)	(B)	(C)	(D)	A791	C105	C402	C403	C452	C453	C521	C841	C842	CN21	CN47	CN48	D741-745	F1	F2		
KRF-V8090D	EUROPE	E1	X14-7902-72	YES	NO	YES	YES	YES	YES	YES	2300u25	1000u25	0.039	3300u25	NO	NO	YES	YES	NO	B30-2651-05	F05-4025-05	F06-1022-05	
KRF-V8090D-S	EUROPE	E2	X14-7902-72	YES	NO	YES	YES	YES	YES	YES	2300u25	1000u25	0.039	3300u25	NO	NO	YES	YES	YES	NO	B30-2651-05	F05-4025-05	F06-1022-05
KRF-X9090D	AUSTRALIA	X2	X14-7902-72	YES	NO	YES	YES	NO	YES	YES	2300u25	1000u25	0.047	3300u25	NO	NO	YES	YES	NO	B30-2545-05	F05-4025-05	F06-1022-05	
KRF-X9090D	EUROPE	E3	X14-7902-73	YES	NO	YES	YES	YES	YES	YES	2300u25	1000u25	0.039	3300u25	NO	NO	YES	YES	NO	B30-2651-05	F05-4025-05	F06-1022-05	
KRF-X9090D-S	EUROPE	E4	X14-7902-73	YES	NO	YES	YES	YES	YES	YES	2300u25	1000u25	0.068	3300u25	YES	NO	YES	YES	NO	B30-2651-05	F05-4025-05	F06-1022-05	
KRF-X9090D-S	AUSTRALIA	X4	X14-7902-73	YES	NO	YES	YES	YES	YES	YES	2300u25	1000u25	0.047	3300u25	NO	NO	YES	YES	NO	B30-2545-05	F05-4025-05	F06-1022-05	
VR-9080	U.S.A.	K5	X14-7902-91	NO	YES	YES	YES	NO	NO	NO	2200u25	1000u25	0.1	3300u16	NO	NO	YES	NO	NO	B30-2545-05	F05-0078-05	F06-0220-05	
VR-9080-S	U.S.A.	K6	X14-7902-10	NO	NO	NO	NO	NO	NO	NO	2200u25	1000u25	0.1	3300u16	NO	NO	YES	YES	NO	B30-2545-05	F05-0078-05	F06-0220-05	
VR-9560	U.S.A.	K7	X14-7902-73	NO	YES	YES	YES	NO	NO	NO	2200u25	1000u25	0.068	3300u25	YES	NO	YES	YES	NO	B30-2651-05	F05-4025-05	F06-1022-05	
VR-9560-S	U.S.A.	K8	X14-7902-91	NO	YES	YES	YES	NO	NO	NO	2200u25	1000u25	0.068	3300u25	YES	NO	YES	YES	NO	B30-2651-05	F05-0078-05	F06-0220-05	
	CANADA	P5	X14-7900-13	NO	NO	NO	NO	NO	NO	NO	2200u25	1000u25	0.1	3300u16	NO	NO	YES	NO	NO	B30-2545-05	F05-0078-05	F06-0220-05	
	CANADA	P6	X14-7900-10	NO	NO	NO	NO	NO	NO	NO	2200u25	1000u25	0.1	3300u16	NO	NO	YES	YES	NO	B30-2545-05	F05-0078-05	F06-0220-05	
	CANADA</td																						

KRF-V8090D/X9090D/VR-9560/9080 PARTS LIST

4

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

¶ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add- res	Parts No.	New Parts S	VR-9080/9560		Desti- nation	Re- marks
				Description	Part No.		
601	1A	A01-3950-01		METALLIC CABINET	K5P5K7		
601	1A	A01-3950-01		METALLIC CABINET	P7		
601	1A	A01-3951-01		METALLIC CABINET	K6P6K8		
603	2A	A21-5486-02		DRESSING PANEL	P8		
603	2A	A21-5487-02		DRESSING PANEL	K7P7		
603	2A	A21-5500-02		DRESSING PANEL	K8P8		
603	2A	A21-5501-02		DRESSING PANEL	K5P5		
604	2B	A22-1906-11		SUB PANEL	K6P6		
604	2B	A22-1906-11		SUB PANEL	K5P5K7		
604	2B	A22-1907-11		SUB PANEL	P7		
604	2B	A22-1907-11		SUB PANEL	K6P6K8		
605	2A	A52-1022-01		DOOR PANEL	P8		
605	2A	A52-1021-01		DOOR PANEL	K5P5		
605	2A	A52-1021-01		DOOR PANEL	K6P6		
605	2A	A52-1022-01		DOOR PANEL	K7P7		
605	2A	A52-1022-01		DOOR PANEL	K8P8		
606	2A	A60-2432-01		REMOTE CONTROLLER ASSY	K7K8P7		
606	2A	A60-2433-01		REMOTE CONTROLLER ASSY	P8		
606	2A	A60-2455-01		REMOTE CONTROLLER ASSY	K5K6P6		
606	2A	A60-2456-01		REMOTE CONTROLLER ASSY	P6		
607	1A	A70-1671-05		INSTRUCTION MANUAL, EN	K5K6P5		
607	1A	A70-1671-05		INSTRUCTION MANUAL, EN	P6		
607	1A	A70-1675-05		INSTRUCTION MANUAL, FR	K5P6		
607	1A	A70-1675-05		INSTRUCTION MANUAL, FR	K7K8P7		
607	1A	A70-1675-05		INSTRUCTION MANUAL, EN	P8		
-	-	B60-5557-00		INSTRUCTION MANUAL, EN	K5K6P5		
-	-	B60-5558-00		INSTRUCTION MANUAL, EN	P6		
-	-	B60-5603-00		INSTRUCTION MANUAL, FR	K5P6		
-	-	B60-5603-00		INSTRUCTION MANUAL, FR	K7K8P7		
-	-	B60-5604-00		INSTRUCTION MANUAL, FR	P8		
610	2B	B03-3951-02		DRESSING PLATE	K7P8		
610	2B	B03-3952-02		DRESSING PLATE	K5P5		
610	2B	B03-3955-02		DRESSING PLATE	K6P6		
610	2B	B03-3956-02		DRESSING PLATE	K7P7		
612	2A	B10-5563-02		FRONT GLASS	K5K6P5		
612	2A	B11-1612-13		COLOR FILTER	P6		
612	2A	B11-1612-13		COLOR FILTER	K7K8P7		
612	2A	B11-1616-13		COLOR FILTER	P8		
612	2A	B11-1616-13		COLOR FILTER	K7P7		
614	2A	B12-0490-14		INDICATOR ASSY	K5P5K7		
614	2A	B12-0490-14		INDICATOR ASSY	P7		
614	2A	B12-0492-14		INDICATOR ASSY	K6P6K8		
614	2A	B12-0492-14		INDICATOR ASSY	P8		
616	2A	B43-0336-04		BADGE			
620	2A	D39-0321-05		DAMPER			
626	1C	E30-7929-06		AC POWER CORD			
626	1C	E35-3216-05		FLAT CABLE			
628	1C	E35-3746-05		FLAT CABLE			
637	1A,1B	F29-0134-04		INSULATING WASHER			
643	1B,2C	G11-2416-04		CUSHION			
644	2A,2C	G11-2985-04		CUSHION			

I: Malaysia
C: China
G: Germany
H: Korea
P: Canada
R: Mexico
E: Europe
T: USA
X: Australia
V: UK
Y: PK/China/Hong Kong
Z: East Hawaii
W: Other Areas
Δ: indicates safety critical components

Ref. No	Address	Parts No.	Description	Desti- nation	Re- marks
645	1B	G11-2886-04	CUSHION		
646	2A	G11-2887-04	CUSHION		
647	1B	G11-2916-04	CUSHION		
648	1B	G11-2958-04	CUSHION		
649	1B,1C	G11-2959-04	CUSHION		
650	2B	G11-2968-04	CUSHION	K5P5K7	
650	2B	G11-2968-04	CUSHION	P7	
650	2B	G11-2969-04	CUSHION	K6P6K8	
650	2B	G11-2969-04	CUSHION	P8	
655	2C	J61-0307-05	WIRE BAND FOOT (D=60, H=21.5)		
656	1B	J02-1467-03	UNIT HOLDER	K5P5K7	
657	2C	J19-5915-05	UNIT HOLDER	P7	
658	2C	J19-6002-04	UNIT HOLDER	K6P6K8	
659	1C	J19-6312-05	UNIT HOLDER	K6P6K8	
671	1C	J42-0083-05	POWER CORD BUSHING	K6P6K8	
680	2B	K29-8432-04	KNOB	K5P5K7	
680	2B	K29-8432-04	KNOB	P7	
680	2B	K29-8433-04	KNOB	K6P6K8	
680	2B	K29-8433-04	KNOB	P8	
681	2B	K29-8434-13	KNOB	K5P5K7	
681	2B	K29-8446-13	KNOB	P7	
681	2B	K29-8446-13	KNOB	K6P6K8	
682	2B	K29-8435-11	KNOB	K6P6K8	
682	2B	K29-8435-11	KNOB	P8	
682	2B	K29-8436-11	KNOB	K5P5K7	
682	2B	K29-8436-11	KNOB	P7	
683	2B	K29-8437-14	KNOB ASSY	K6P6K8	
683	2B	K29-8437-14	KNOB ASSY	P8	
683	2B	K29-8437-14	KNOB ASSY	K5P5K7	
683	2B	K29-8437-14	KNOB ASSY	P7	
684	2B	K29-8444-04	KNOB	K6P6K8	
684	2B	K29-8445-04	KNOB	P8	
684	2B	K29-8445-04	KNOB	K6P6K8	
685	2B	L07-3285-15	POWER TRANSFORMER	K6P6K8	
A		N84-2005-48	PAN HEAD TAPITE SCREW		
G		N82-2608-48	BINDING HEAD TAPITE SCREW		
J		N89-3008-48	BINDING HEAD TAPITE SCREW		
M		N89-3018-48	BINDING HEAD TAPITE SCREW		
N		N89-3010-48	BINDING HEAD TAPITE SCREW		
P		N84-3005-48	PAN HEAD TAPITE SCREW		
R		N84-2605-48	PAN HEAD TAPITE SCREW		
R		N84-2605-48	PAN HEAD TAPITE SCREW		
690	1A	T90-0893-05	LOOP ANTENNA		
691	1A	T90-0905-05	LEAD WIRE ANTENNA		
692	2A	T99-0672-05	MAGNET		
693	1A	T29-0011-05	MICROPHONE UNIT		
Q11	12		TRANSISTOR		
Q13	14		TRANSISTOR		
Q31	32		TRANSISTOR		
Q33	34		TRANSISTOR		

L: Scandinavia K: USA P: Canada B: Mexico C: China (Shanghai)
 Y: PKF(East-Hawaii) T: England E: Europe G: Germany V: China (Korea)
 Y: AFK(Europe) X: Australia Q: Russia H: Korea W: Other Areas Δ indicates safety critical components.

KRF-V8090D/X9090D/VR-9560/9080 PARTS LIST

5

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	Add- ress	Parts No.	Description	Desti- nation	Re- marks
△ Q11	12	TRAIT3KNNF	TRANSISTOR		
△ Q13	14	TRAIT3KPNF	TRANSISTOR		
△ Q31	32	TRAIT3KNNF	TRANSISTOR		
△ Q33	34	TRAIT3KPNF	TRANSISTOR		
△ Q51	52	TRAIT3KNNF	TRANSISTOR		
△ Q53	54	TRAIT3KPNF	TRANSISTOR		
△ Q77	8	TRAIT3KNNF	TRANSISTOR		
△ Q720		TRAIT3KPNF	TRANSISTOR		
△ TH1	2C	DP40203GG270	TRANSISTOR THERMISTOR		
694	1C	* W02-4615-05	TUNER ASSY		
694	1C	* W02-4616-05	TUNER ASSY		
694	1C	* W02-4616-05	TUNER ASSY		
					Y3Y4 E1EX2 E3EX4

HOW TO READ THE PARTS LIST ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	Europe	PX/AAFE'S	USA
		X	P	E	Y	K
KRF-V8090D	B	-	-	E1	-	-
KRF-V8090D-S	S	X2	-	E2	-	-
KRF-X9090D	B	-	-	E3	Y3	-
KRF-X9090D-S	S	X4	-	E4	Y4	-
VR-9080	B	-	P5	-	-	K5
VR-9080-S	S	-	P6	-	-	K6
VR-9560	B	-	P7	-	-	K7
VR-9560-S	S	-	P8	-	-	K8

L: Scandinavia
Y: PX(F: East, Hawaii)
Y: AAES(Europe)
K: USA
T: England
X: Australia
P: Canada
E: Europe
G: Germany
H: Russia
R: Mexico
F: Canada
G: Germany
H: Korea
C: China
V: China(Shanghai)
M: Other Areas

1: Malaysia

△: indicates safety critical components.

KRF-V8090D/X9090D/VR-9560/9080

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

5

Ref. No	New Parts	Parts No.	Desti- nation
PREAMP (X08-3390-13)			

C1 ,2	CK73GB1H472K
C3 ,4	CC73GCH1H220J
C5 ,6	CD04BJ1E470M
C7	CD04BJ1H100M
C8 ,9	CK73GCH1H221J
C11	CK73GB1H104K
C12	CK73GB1A474K
C13 ,14	CK73GB1H104K
C15	CK73GB1H102K
C16	CK73GB1H103K
C41	CK73GB1H104K
C42	CK73GB1H103K
C43	CD04BJ1H2R2M
C44 ,45	CK73GB1H104K
C46	CD04BJ1E470M
C47 ,48	CD04BJ1H4R7M
C49	CD04BJ1H100M
C50 ,51	CK73GB1H103K
C57 ,58	CC73GSL1H471J
C61 ,62	CK73GCH1H080D
C63	CK73GB1H102K
C64	CK73GB1C563K
C65	CD04BJ1E470M
C66	CC73GCH1H220J
C79	CK73GB1H103K
C80	CK73FB1E104K
C81	CK73GB1H104K
C82	CD04BJ1H100M
C83 ,84	CK73GB1H104K
C85	CD04BJ1H100M
C87	CD04BJ0J331M
C88	CD04BJ1H100M
C89	CK73FB1E104K
C90	CK73GB1H104K
C91	CD04BJ1H100M
C92	CK73FB1E104K
C93	CK73GB1H104K
C94	CD04BJ1H100M
C95	CK73FB1C105K
C96	CK73GB1H104K
C97	CD04BJ1A101M
C98	CK73FB1E104K
C99	CK73GB1H103K
C100	CD04BJ1C472M
C101,102	CD04BJ1H100M
C103-106	CC73GCH1H182J
C109	CK73GCH1H101J
C110	CK73GB1H103K
C121,122	CD04BJ1H100M
C123,124	CC73GCH1H222J
C125,126	CK73GCH1H821J
C129	CK73GCH1H101J
C130	CK73GB1H103K
C141,142	CD04BJ1H100M
C143-146	CC73GCH1H182J
C149	CK73GCH1H101J
C150	CK73GB1H103K
C161,162	CD04BJ1H100M
C163	CC73GCH1H182J
C164	CK73GB1H822K
C165	CC73GCH1H182J
C166	CK73GB1H822K
C169	CC73GCH1H101J
C170	CK73GB1H103K
C181,182	CC73GCH1H220J
C189	CC73GCH1H101J
C190	CK73GB1H103K
C191-196	CD04BJ1H4R7M
C197	CK73GB1H102K
C198	CC73GCH1H101J
C261,262	CD04BJ1H100M
C263,264	CC73GCH1H220J
C265,266	CD04BJ1H4R7M
C267	CC73GCH1H101J
C268	CK73GB1H103K

Ref. No	New Parts	Parts No.	Desti- nation
PREAMP (X08-3390-13)			
C501-528	CK73GB1H103K		
C529	CD04BJ1H100M		
C530-543	CK73GB1H103K		
C544,545	CK73GB1H104K		
C546-553	CK73GB1H103K		
C554	CK73GB1H104K		
C555	CK73GB1H103K		
C556-558	CK73GB1H102K		
C560	CK73GB1H103K		
C561,562	CC73GCH1H101J		
C563-565	CK73GB1H103K		
C567-570	CK73GB1H103K		
C571,572	CC73GCH1H080D		
C573	CK73GB1H102K		
C574	CK73GB1H103K		
C575	CC73GCH1H100D		
C601	CC73GCH1H101J		
C602	CK73GB1H821K		
C603	CC73GCH1H101J		
C604	CC73GCH1H100D		
CN4	E41-1435-05		
J1	E63-1387-05		
L1 ,2	L92-0510-05		
L3 -5	L92-0578-05		
X6	L77-2419-05		
X51	L77-2455-05		*
CP51-66	RK74GB1J220J		
CP71-75	RK74GB1J181J		
R1 ,2	RK73GB2A101J		
R3	RK73EB2E4R7J		
R4	RK73GB2A471J		
R5 ,6	RK73EB2E4R7J		
R7 ,8	RK73GB2A750J		
R11 ,12	RK73GB2A101J		
R21	RK73GB2A183J		
R23	RK73GB2A201J		
R24 -26	RK73GB2A101J		
R27	RK73GB2A104J		
R30 ,31	RK73GB2A101J		
R32	RK73GB2A102J		
R33	RK73GB2A181J		
R41	RK73GB2A330J		
R42	RK73GB2A104J		
R43 -47	RK73GB2A101J		
R48 ,49	RK73GB2A100J		
R50	RK73GB2A181J		
R51	RK73GB2A100J		
R52	RK73EB2E4R7J		
R55 ,56	RK73GB2A471J		
R61 ,62	RK73GB2A105J		
R63	RK73GB2A221J		
R64	RK73FB2A2R2J		
R65	RK73GB2A330J		
R81	RK73EB2E2R2J		
R82 ,83	R92-1918-05		
R84	RS14KB1D680J		
R85	RS14KB3D560J		
R86	RS14KB3D2R2J		
R86	RS14KB3D2R2J		
R86	RS14KB3D2R2J		
R86	RS14KB3D3R3J		
R86	RS14KB3D3R3J		
R87	RS14KB3D3R3J		
R88	RS14KB3D2R2J		
R89	RK73GB2A202J		
R90 ,91	RK73GB2A103J		
R92	RK73GB2A152J		
R93	RK73GB2A102J		
R94	RK73GB2A472J		
R95	RK73GB2A473J		
R96 ,97	RK73GB2A221J		
R98	R92-1918-05		
R101,102	RK73GB2A104J		
R103,104	RK73GB2A222J		

Ref. No	New Parts	Parts No.	Desti- nation
PREAMP (X08-3390-13)			
R105,106	RK73GB2A102J		
R107,108	RK73GB2A103J		
R109,110	RK73GB2A472J		
R111,112	RK73GB2A221J		
R121,122	RK73GB2A104J		
R123,124	RK73GB2A332J		
R125,126	RK73GB2A911J		
R127,128	RK73GB2A272J		
R129,130	RK73GB2A562J		
R131,132	RK73GB2A221J		
R141,142	RK73GB2A104J		
R143,144	RK73GB2A222J		
R145,146	RK73GB2A102J		
R147,148	RK73GB2A103J		
R149,150	RK73GB2A472J		
R151,152	RK73GB2A221J		
R161,162	RK73GB2A104J		
R163	RK73GB2A222J		
R164	RK73GB2A273J		
R165	RK73GB2A102J		
R166	RK73GB2A183J		
R167,168	RK73GB2A103J		
R169	RK73GB2A472J		
R170	RK73GB2A912J		
R171,172	RK73GB2A221J		
R181,182	RK73GB2A102J		
R185-188	RK73GB2A562J		
R189,190	RK73GB2A101J		
R201-208	RK73GB2A104J		
R209-212	RK73GB2A472J		
R213,214	RK73GB2A432J		
R215,216	RK73GB2A562J		
R217,218	RK73GB2A472J		
R219,220	RK73GB2A562J		
R261-264	RK73GB2A562J		
R265,266	RK73GB2A101J		
R501,502	RK73GB2A330J		
R503-506	RK73GB2A104J		
R507-509	RK73GB2A101J		
R510	RK73GB2A104J		
R511	RK73GB2A330J		
R512	RK73GB2A101J		
R513-515	RK73GB2A104J		
R516	RK73GB2A101J		
R517	RK73GB2A220J		
R518	RK73FB2A100J		
R521	RK73GB2A472J		
R523,524	RK73GB2A472J		
R525,526	RK73GB2A220J		
R527	RK73GB2A101J		
R528-530	RK73GB2A472J		
R532-534	RK73GB2A472J		
R536	RK73GB2A103J		
R537-540	RK73GB2A472J		
R541-548	RK73GB2A100J		
R549	RK73GB2A101J		
R550	RK73GB2A100J		
R551	RK73GB2A104J		
R552	RK73GB2A102J		
R553	RK73GB2A101J		
R554	RK73GB2A201J		
R560-567	RK73GB2A472J		
R571	RK73GB2A105J		
R572	RK73GB2A101J		
R573	RK73GB2A105J		
R574	RK73GB2A103J		
R581	RK73GB2A104J		
R601,602	RK73GB2A100J		
R603,604	RK73GB2A120J		
R901,902	RK73GB2A000JK		
R903,904	RK73GB2A220J		
R907	RK73GB2A000JK		
R909-911	RK73GB2A000JK		
R912	RK73GB2A000JK		
R912	RK73GB2A000JK		
R912	RK73GB2A000JK		

L: Scandinavia
Y: PX(Far East, Hawaii)
Y: AAFES(Europe)

K: USA
T: England
X: Australia

P: Canada
E: Europe
Q: Russia

R: Mexico
G: Germany
H: Korea

C: China
V: China(Shanghai)
M: Other Areas

I: Malaysia

△ indicates safety critical components.

E1E2X2
E3E4X4
K5K6K7

KRF-V8090D/X9090D/VR-9560/9080

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

7

Ref. No	New Parts	Parts No.	Desti- nation	Ref. No	New Parts	Parts No.	Desti- nation	Ref. No	New Parts	Parts No.	Desti- nation
R912		RK73GB2A000JK	K8P5P6	C41		CK45FF1H103Z		C312		CD04BJ1A101M	
R912		RK73GB2A000JK	P7P8	C42		CK45FF1H103Z	E1E2E3	C315		CD04BJ2A330M	
S1	S62-0034-05	Y3Y4		C42		CK45FF1H103Z	E4X2X4	C316		CD04BJ2A100M	
△ D1	D2SBA207009F01			C42		CK45FF1H103Z	Y3Y4	C317,318		CD04BJ2A220M	
△ D2 - 4	MA111			C44,45		CD04BJ1E470M		C319,320		CC45FS1H101J	
D5	UDZS5.6B			C46,47		CC93FMG1H823J		C323		CK45FB1H102K	
D6 ,7	UDZS3.9B			C48,49		CC45FSL1H101J		C324,325		CD04BJ1C471M	
D8	1SR154-400			C51-54		C91-1573-05		C351-353		CC45FS1H221J	
D9	UDZS3.9B			C55,56		CQ93FMG1H272J		C354		CC45FMG1H122J	
D10	UDZS5.1B			C57,58		CD04BJ1H2R2M		C355-360		CK45FF1H472Z	
D11,12	DAN202U			C62,63		CD04BJ1H3R3M		C361,362		CD04BJ1E220M	
D13-16	MA111			C64,65		CD04BJ2A3R3M		C363		CD04BJ1E470M	
D17	1SR154-400			C66,67		CC45FSL1H331J		C364		CD04AU1H2R2M	
D18	MA111	Y3Y4		C68		CC45FC1H070D		C365		CD04BJ1A221M	
D41	DAP202U			C69		CC45FC1H080D		C366		CD04BJ1H4R7M	
D42	DAN202U			C70,71		CQ93FMG1H222J		C367		CD04BJ1A221M	
D51,52	MA111			C72,73		CC45FSL1H101J		C368		CD04BJ1H4R7M	
IC1	AK4114VQ			C74,75		CD04BJ1A221M		C369		CD04AU1E220M	
IC2	AK4628-VQ			C76,77		CC45FC1H150J		C370		CK45FB1H102K	
IC6	TC7WU04FU-F			C78,79		CK45FB1H561K		C450		CK45FE2H103P	
IC10	NJM4565MD-ZB			C84,85		CD04BJ1E470M		C451-453		CK45FB2H102K	
IC12	NJM4565MD-ZB			C86,87		CC45FSL1H151J		C501,502		CC45FSL1H221J	
IC14	NJM4565MD-ZB			C88,89		CC45FSL2H470J		C503		CK45FF1H103Z	
IC16	* NJM4565MD-ZB			C90,93		C91-1577-05		C600		CD04BJ1E101M	
IC18	* NJM5532MD-ZB			C90,93		C91-1577-05	E1E2E3	C609		CC45FC1H100D	
IC19	* NJM4565MD-ZB			C90,93		C91-1577-05	E4X2X4	C610		CD04BJ2A101M1	
IC20	NJU7311AM-ZB			C90,91		C91-1573-05	Y3Y4	C611		CD04BJ1H220M	
△ IC21,22	BA033T			C90,91		C91-1573-05	K5K6K7	C722		CD04BJ1H220M	
△ IC23	BA05T			C90,91		C91-1573-05	K8P5P6	C800,801		CD04BJ1H100M	
△ IC24	XC6201P332PRN			C94,95		CK45FB1H332K	P7P8	C802		CK45FF1H103Z	
△ IC26	SI-3010KM			C111-114		CD04BJ1H3R3M		CN4,5		E41-1435-05	
IC50	* ADSST-AVR-1100	E3E4Y3		C115,116		CC45FSL1H331J		J3		E63-1379-05	
IC50	* ADSST-AVR-1100	K5K6P5		C117,118		CC45FC1H050C		J5		* E70-1017-05	
IC50	* ADSST-AVR-1100	P6Y4X4		C119,120		CQ93FMG1H222J		J6		* E70-1018-05	
IC50	* ADSST-AVR-1105	E1E2X2		C121,122		CC45FSL1H101J		J11,12		E63-1380-05	
IC50	* ADSST-AVR-1105	K7K8P7		C123,124		CD04BJ1A221M		J21,22		E11-0993-05	
IC50	* ADSST-AVR-1105	P8		C125,126		CC45FC1H150J		J501		E29-1677-14	
IC51-53	SN74LVC573APWR			C127,128		CK45FB1H561K		W350,351			
IC54	SN74LVC245APWR			C133,134		CD04BJ1H220M		E501		J11-0898-05	E1E2E3
IC55	SN74LVC2G125T3			C135,136		CC45FSL1H151J		E501		J11-0898-05	E4X2X4
IC56	SN74LVC139APWR			C137,138		CC45FSL2H470J		E501		J11-0898-05	Y3Y4
IC57	SN74LVC1G08DC3			C139-142		C91-1577-05		L1 -6		L39-1631-05	
IC58	SN74LVC1G32DC3			C139-142		C91-1577-05					
IC59	* LHF16JT2-1BEA	E1E2X2		C139-142		C91-1577-05		R61,62		RS14KB3A821J	
IC59	* LHF16JT2-1BEA	K7K8P7		C139,140		C91-1573-05		R81,84		RD14NB2E221J	
IC59	* LHF16JT2-1BEA	P8		C139,140		C91-1573-05		R85,86		RD14NB2E562J	
IC59	* LHF16JT2-1BFA	E3E4Y3		C161		C91-1573-05		R87,88		RD14NB2E331J	
IC59	* LHF16JT2-1BFA	K5K6P5		C163		CD04BJ2A3R3M		R93,96		RD14NB2E470J	
IC60	* LHF16JT2-1BFA	P6Y4X4		C165		CC45FSL1H331J		R97,98		RD14NB2E221J	
IC61	IS61LV1024810T			C167		CC45FC1H060D		R99,100		RD14NB2E330J	
IC62	TC74VHC125FT			C169		CQ93FMG1H222J		R101,102		RS14KB3D4R7J	
IC63	TC74HCT7007AF			C171		CC45FSL1H01J		R103,104		RS14KB3D391J	
IC64	SN74LVC1G08DC3			C173		CD04BJ1A221M		R131-134		RD14NB2E221J	
Q1	2SB1218A(Q,R)			C175		CC45FC1H150J		R135,136		RD14NB2E562J	
Q2	2SD1819A(Q,R)			C177		CK45FB1H561K		R137,138		RD14NB2E331J	
Q51	2SC4081(R,S)			C183		CD04BJ1E470M		R143-146		RD14NB2E470J	
A1,2	W02-4524-05			C185		CC45FSL1H151J		R147,148		RD14NB2E221J	
A3	W02-4540-05			C187		CC45FSL2H470J		R149,150		RD14NB2E330J	
C1,2	CC45FSL1H221J			C189,192		C91-1577-05		R151,152		RS14KB3D4R7J	
C3,4	CD04BJ1H100M			C189,192		C91-1577-05	E1E2E3	R181		RD14NB2E221J	
C5,6	CC45FSL1H221J			C189,192		C91-1577-05	E4X2X4	R183		RD14NB2E221J	
C7,8	CD04BJ1A101M			C189,192		C91-1577-05	Y3Y4	R185		RD14NB2E562J	
C9,10	CC45FSL1H271J			C189,190		K5K6K7					
C11,12	CQ93FMG1H123J			C189,190		C91-1573-05		R187		RD14NB2E331J	
C13,14	CK45FB1H332K			C189,190		C91-1573-05		R193		RD14NB2E470J	
C15,16	CD04BJ1H4R7M			C193		CK45FB1H332K		R195		RD14NB2E470J	
C17,18	CC45FSL1H101J			C195,196		CK45FB1H332K		R197,198		RD14NB2E221J	
C19-38	CC45FSL1H221J			C210,211		CC45FC1H050C		R199,200		RD14NB2E330J	
C39	CC45FSL1H101J	E1E2E3		C301,302	*	C90-5844-05		R201,202		RS14KB3D4R7J	
C40	CK45FF1H103Z	E4X2X4		C303		CQ93FMG1H103J		R303		RD14NB2E561J	
C40	CK45FF1H103Z	Y3Y4		C304		CD04BJ1A221M		R304		RS14KB3A822J	
C40	CK45FF1H103Z			C305		CD04BJ1H101M		R306		RD14NB2E101J	
				C306		CD04BJ2A101M1		R307		RD14NB2E822J	
				C308		CD04BJ1H100M		R310		RS14KB3A390J	
				C309-311		CD04BJ1H220M		R311		RS14KB3A680J	
								R314		RS14KB3A681J	

L: Scandinavia
Y: PX(Far East, Hawaii)
Y: AAFES(Europe)

K: USA
T: England
X: Australia

P: Canada
E: Europe
Q: Russia

R: Mexico
G: Germany
H: Korea

C: China
V: China(Shanghai)
M: Other Areas

I: Malaysia

△ indicates safety critical components.

KRF-V8090D/X9090D/VR-9560/9080

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

8

Ref. No New Parts Parts No. Desti-
nation

Ref. No New Parts Parts No. Desti-
nation

Ref. No New Parts Parts No. Desti-
nation

R317	RS14KB3D152J	
R318	RS14KB3D222J	
△ R321,322	RD14NB2E1R0J	
△ R325,326	RD14NB2E472J	
△ R331-333	RS14KB3D182J	
R342	RS14KB3A100J	
R343	RS14KB3A470J	
R454	RS14KB3A391J	
R476	RD14NB2E561J	
R627	RD14NB2E472J	
R733	RD14NB2E470J	
R735	RD14NB2E470J	
VR1 -6	R32-0118-05	
K2 -5	S76-0098-05	
D1 -5	1SS133	
D6	1SS133	E1E2E3
D6	1SS133	E4X2X4
D6	Y3Y4	
D7	MTZJ5.1(B)	E1E2E3
D7	MTZJ5.1(B)	E4X2X4
D8	MTZJ3.9(B)	Y3Y4
D8	MTZJ3.9(B)	E1E2E3
D8	MTZJ3.9(B)	E4X2X4
△ D12	D5SBA20-7000	
△ D14 ,15	S5688B	
D16	1SS133	
D17	MTZJ16(B)	
D18	MTZJ15(B)	
D19	MTZJ16(B)	
D20	MTZJ6.2(B)	
D21	MTZJ6.8(B)	
D22	MTZJ5.1(B)	
D23	MTZJ13(B)	
D23	MTZJ13(B)	X2
D23	MTZJ6.2(B)	Y3Y4X4
D23	MTZJ6.8(B)	
D23	MTZJ5.1(B)	
D23	MTZJ13(B)	
D23	MTZJ13(B)	
D23	MTZJ15(B)	
D23	MTZJ15(B)	K5K6K7
D23	MTZJ15(B)	K8P5P6
D23	MTZJ7.5(B)	P7P8
D23	MTZJ7.5(B)	E2
D24	MTZJ7.5(B)	E3E4E1
D24	MTZJ7.5(B)	X2
D24	MTZJ8.2(B)	Y3Y4X4
D24	MTZJ8.2(B)	E2
D24	MTZJ8.2(B)	E3E4E1
D24	MTZJ8.2(B)	K5K6K7
D24	MTZJ8.2(B)	
D24	MTZJ8.2(B)	
D25	MTZJ30(B)	K8P5P6
D25	MTZJ30(B)	P7P8
D26	MTZJ3.9(B)	E2
D26	MTZJ3.9(B)	E3E4E1
D27	1SS244	
D28 ,29	1SS133	
D32 -35	1SS133	
D51 ,52	1SS244	
D53 ,54	1SS133	
D55 ,56	1SS244	
D57 ,58	1SS133	
D59 ,60	1SS244	
D61 ,62	1SS133	
D63	MTZJ3.9(B)	
D64	1SS133	
D65	MTZJ3.9(B)	
D66	1SS133	
D67	MTZJ3.9(B)	
D68	1SS133	
D69	MTZJ3.9(B)	
D602-604	1SS133	
D608	MTZJ30(B)	
D609	MTZJ20(B)	
D800,801	MTZJ5.6(B)	
IC1	NJM4580L-ZB	
IC2	M61516FP	K5K6K7
IC2	M61516FP	K8P5P6
IC2	M61516FP	P7P8

IC2	M61516FP-RF0G	E1E2E3
IC2	M61516FP-RF0G	E4X2X4
IC800	*	Y3Y4
Q1 - 4		
Q5 ,6		
Q7 - 10	2SC2631(R,S)	
Q21 - 24	2SA992(F,E)	
Q25 ,26	2SA1123(R,S)	
Q27 - 30	2SC2631(R,S)	
Q41	2SA992(F,E)	
Q43	2SA992(F,E)	
Q45	2SA1123(R,S)	
Q47	2SC2631(R,S)	
Q49	2SC2631(R,S)	
Q302	DTC113ZSA	
△ Q303	2SC3940A(R,S)	
△ Q304	2SB1640	
△ Q305	DTC143ZSA	
△ Q306	2SB1640	
△ Q307	2SD2525	
Q308	2SA992(F,E)	
Q309-312	*	
Q313	KTC3200-P	
Q313	DTC143ZSA	
Q313	DTC143ZSA	
Q313-335	2SC2878(B)-F	
Q353-358	2SC1845(F,E)	
Q359	2SA992(F,E)	
Q360,361	2SC1845(F,E)	
Q362	2SA992(F,E)	
Q363,364	2SC1845(F,E)	
Q365	2SA992(F,E)	
Q602-604	2SC1845(F,E)	
Q605,606	2SC2878(B)-F	
Q607	2SA992(F,E)	
Q610	2SD2012	
Q611	*	
Q611	KTC3199-P(Y,G)	E1E2E3
Q611	KTC3199-P(Y,G)	E4X2X4
Q612	KTA1267-P(Y,G)	Y3Y4
Q612	KTA1267-P(Y,G)	E1E2E3
Q612	KTA1267-P(Y,G)	E4X2X4
Q612	KTA1267-P(Y,G)	Y3Y4

SUB (X13-7960-13)

C101-106	CC45FCH1H100D	
C107,108	CC45FSL1H820J	
C109	CC45FCH1H100D	
C110-115	CD04BJ1V330M	
C119-124	CK45FF1H103Z	
C128-130	CC45FCH1H100D	
C131-133	CD04BJ1V330M	
C134-136	CK45FF1H103Z	
C137	CD04BJ1E470M	
C138-140	CQ93FMG1H104J	
C141	CC45FCH1H100D	
C142	CD04BJ1H100M	
C146	CD04BJ1H100M	
C147	CD04BJ1E470M	
C148	CQ93FMG1H104J	
C150	CQ93FMG1H104J	
C151,152	CD04BJ1H4R7M	
C153,154	CD04BJ1E470M	
C155,156	CC45FSL1H820J	
C157,158	CD04BJ1H220M	
C159	CC73GCH1H050C	
C161	CC73GCH1H050C	
C169	CK73GB1H331K	
C180,181	CC73GCH1H050C	
C201	CD04BJ1H100M	
C201	CD04BJ1H100M	
C202	CK45FF1H103Z	
C202	K5K6P5	
C202	P6	
C202	K5K6P5	
C203	CK45FF1H103Z	
C203	P6	
C203	K5K6P5	
C205,206	CK45FF1H103Z	

C205,206	CK45FF1H103Z	P6
C207	CD04BJ1A101M	K5K6P5
C207	CD04BJ1A101M	P6
C208	CD04BJ1A221M	K5K6P5
C208	CD04BJ1A221M	P6
C209	CK45FF1H103Z	K5K6P5
C209	CK45FF1H103Z	P6
C210	CC45FSL1H221J	K5K6P5
C210	CC45FSL1H221J	P6
C211-213	CC45FSL1H101J	K5K6P5
C211-213	CC45FSL1H101J	P6
C214,215	CK45FF1H103Z	K5K6P5
C214,215	CK45FF1H103Z	P6
C216	CD04BJ1H010M	K5K6P5
C301-309	CC45FSL1H221J	P6Y4X4
C301-309	CC45FSL1H221J	K5K6P5
C310	CC45FSL1H221J	
C311-313	CK45FB1H332K	
C315-317	CC45FSL1H101J	
C401-406	CD04BJ1H220M	
C407,408	CK45FB1H471K	
C409,410	CC73GCH1H471J	
C411,412	CK45FB1H471K	
C419	CD04BJ1E221M	
C420	CD04BJ1E101M	
C425,426	CC45FSL1H101J	
C427,428	CC73GCH1H100D	
C429,430	CC45FCH1H100D	
C431-436	CD04BJ1E470M	
C431-436	CD04BJ1E470M	K5K6P5
C431-436	CD04BJ1E470M	P6Y4X4
C437,438	CD04AU1E220M	E3E4Y3
C437,438	CD04AU1E220M	K5K6P5
C437,438	CD04AU1E220M	P6Y4X4
C439	CD04BJ1E470M	
C439	CD04BJ1E470M	K5K6P5
C439	CD04BJ1E470M	P6Y4X4
C440	CD04BJ1H100M	
C441,442	CD04BJ1A101M	
C443-446	CD04BJ1H220M	
C447	CD04BJ1H100M	E3E4Y3
C447	CD04BJ1H100M	K5K6P5
C447	CD04BJ1H100M	P6Y4X4
C448	CD04BJ2A3R3M	
C448	CD04BJ2A3R3M	K5K6P5
C449,450	CD04BJ1H220M	
C451	CD04BJ1E221M	
C452	CD04BJ1H220M	
C453,454	CK45FB1H471K	
C455	CD04AU1E220M	
C457	CC93FMG1H392J	
C458	CC45FCH1H100D	
C459	CC73GCH1H470J	
C460,461	CC73GCH1H101J	
C463,464	CD04BJ1E470M	E3E4Y3
C463,464	CD04BJ1E470M	K5K6P5
C463,464	CD04BJ1E470M	P6Y4X4
C468,469	CC73GCH1H070D	
C536	CK73GB1H182K	
C538	CK73GB1H102K	
C540	CD04BJ1H220M	
C544,545	CK73GB1H103K	
C600	CD04BJ1H100M	
C601-606	CC45FSL1H470J	
C607	CC45FSL1H470J	
C607	CC45FSL1H470J	
C607	CC45FSL1H470J	
C608-611	CD04BJ1E470M	
C612	CD04BJ1A101M	
C613-615	CD04BJ1V330M	
C616	CD04BJ1E470M	
C617	CK73GB1H103K	
C618	CD04BJ1H100M	

L: Scandinavia
Y: PX(Far East,Hawaii)
Y: AAFES(Europe)

K: USA
T: England
X: Australia

P: Canada
E: Europe
Q: Russia

R: Mexico
G: Germany
H: Korea

C: China
V: China(Shanghai)
M: Other Areas

I: Malaysia

△ indicates safety critical components.

KRF-V8090D/X9090D/VR-9560/9080

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.



Ref. No	New Parts	Parts No.	Desti- nation	Ref. No	New Parts	Parts No.	Desti- nation	Ref. No	New Parts	Parts No.	Desti- nation
C619		CD04BJ1V330M		L201		L40-1011-58	P6	R561,562		RK73GB2A104J	
C620		CD04BJ1H100M		L202		L92-0017-05	K5K6P5	R563,564		RK73GB2A102J	
C621		CK73GB1H104K		L202		L92-0017-05	P6	R600		RK73GB2A101J	
C622		CD04BJ1V330M		L502		L76-0018-05	K5K6K7	R611,612		RK73GB2A101J	
C625		CD04BJ1H0R1M		L502		L76-0018-05	K8P5P6	R613		RK73GB2A105J	
C626,627		CK73FB1C105K		L502		L76-0018-05	P7P8	R617		RS14KB3A150J	
C651-662		CC45FSL1H470J		L503		L76-0019-05	E1E2E3	R621-623		RK73GB2A104J	
C663		CK45FF1H103Z		L503		L76-0019-05	E4X2X4	R624		RS14KB3A150J	
C664		CD04BJ1E470M		L503		L76-0019-05	Y3Y4	R625-628		RK73EB2E1R0J	
C665		CK45FF1H103Z		L504		L79-1262-05	E1E2E3	R667		RK73GB2A104J	
C666		CD04BJ1E470M		L504		L79-1262-05	E4X2X4	R671		RS14KB3A150J	
C667		CK45FF1H103Z		L504		L79-1262-05	Y3Y4	R674		RS14KB3A470J	
C668		CD04BJ1E470M		L702		L39-1631-05		R695		RK73GB2A101J	
C669		CK45FF1H103Z						R699		RK73GB2A105J	
C670,671		CD04BJ1E470M						R723,724		RD14NB2E221J	
C672		CK45FF1H103Z						R725,726		RD14NB2E562J	
C673		CD04BJ1E470M						R727,728		RD14NB2E331J	
C674-677		CD04BJ1H100M						R729,730		RD14NB2E221J	
C678,679		CK73GB1H103K						R746		RD14NB2E330J	
C681		CD04BJ1A471M						R748		RS14KB3D4R7J	
C682		CK73GB1H104K						R752		RS14KB3D182J	
C683		CK73GB1H103K		K5K6K7				R756		RD14NB2E470J	
C689		CC45FSL1H101J		K8P5P6				R758		RD14NB2E470J	
C694		CK73GB1H103K		P7P8				R760		RD14NB2E221J	
C694		CK73GB1H104K						R762		R32-0118-05	
C699		CK73GB1H104K						K702		S76-0098-05	
C702-705		CD04BJ1H3R3M						D100,101		MTZJ5.6(B)	
C706,707		CC45FSL1H331J						D155-157		MTZJ5.5(B)	
C708,709		CQ93FMG1H222J						D158-161		UDZS3.9B	
C710,711		CC45FCH1H050C						D201-206		1SS133	
C712		CC45FSL1H221J						D201-206		1SS133	
C713		CC45FSL1H101J						D401		MTZJ3.9(B)	
C714,715		CD04BJ1A221M						D402		MTZJ5.1(B)	
C716,717		CC45FCH1H150J						D402		MTZJ5.1(B)	
C718,719		CC45FSL1H151J						D402		DA204U	
C720		CK45FB1H102K						D503			
C721		CK45FB1H561K						D652		1SS133	
C722		CD04BJ1H220M						D655,656		MTZJ5.6(B)	
C724,725		CC45FSL2H470J						D701-704		1SS133	
C728		CK45FF1H472Z		K5K6K7				D706		1SS244	
C730		C91-1573-05		K8P5P6				D708		1SS133	
C730		C91-1573-05		P7P8				D710		1SS133	
C730		C91-1573-05		E1E2E3				IC3		BU4066BC	
C730		C91-1577-05						IC6		RC4580IP	
C730		C91-1577-05						IC11		NJM2586AM-ZB	
C730		C91-1577-05		E4X2X4				IC65		LA79510M	
C730		C91-1577-05		Y3Y4							
C732		C91-1577-05						IC66		NJM2284V	
C732		C91-1577-05						IC68,69		NJM2575	
C733		CC45FSL1H101J						IC201		BA05T	
C734		CK45FF1H103Z						IC201		BA05T	
CN301		E41-1435-05						IC401-404		RC4580IP	
J61,62		E63-1384-05		E3E4Y3							
J63		E63-1383-05						IC507		BA4560F	
J63		E63-1383-05		K5K6P5				IC508		BA7623F	
J63		E63-1383-05		P6X4Y4				Q65		2SD2525	
J65-67		E56-0059-05						Q66		2SB1640	
J101		E63-1385-05						Q100		2SA954(L.K)	
J102,103		E63-1386-05									
J201	*	E11-0995-05		K5K6P5				Q101		2SC2003(L.K)	
J201	*	E11-0995-05		P6				Q158,159		KRC103M-P	
J202		E11-0991-05		K5K6P5				Q201		KRC103M-P	
J202		E11-0991-05		P6				Q201		2SC1740S(Q,R)	
J302		E63-1364-05		E3E4Y3				Q202,203		2SC1740S(Q,R)	
J302		E63-1364-05		K5K6P5				Q204		2SA933AS(Q,R)	
J302		E63-1364-05		P6Y4X4				Q204		2SA933AS(Q,R)	
J303	*	E63-1399-05		E3E4Y3				Q301-309		2SC2878(B)-F	
J303	*	E63-1399-05		K5K6P5				Q301-309		2SC2878(B)-F	
J303	*	E63-1399-05		P6Y4X4				Q311-319		E3E4Y3	
J305		E63-1359-05		E1E2X2				Q311-319		K5K6P5	
J305		E63-1359-05		K7K8P7				Q311-319		P6Y4X4	
J305	*	E63-1359-05		P8							
J502	*	E70-1016-05						Q320		2SC2878(B)-F	
L201		L40-1011-58		K5K6P5				Q401,402		DTA124EUA	
				R552		RK73GB2A363J		Q401,402		DTA124EUA	
				R554		RK73GB2A103J				E3E4Y3	
				R556		RK73GB2A472J				K5K6P5	

L: Scandinavia
Y: PX(Far East, Hawaii)
Y: AAES(Europe)

K: USA
T: England
X: Australia

P: Canada
E: Europe
Q: Russia

R: Mexico
G: Germany
H: Korea

C: China
V: China(Shanghai)
M: Other Areas

I: Malaysia

△ indicates safety critical components.

KRF-V8090D/X9090D/VR-9560/9080

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

10

Ref. No	New Parts	Parts No.	Desti-nation	Ref. No	New Parts	Parts No.	Desti-nation	Ref. No	New Parts	Parts No.	Desti-nation	
Q403-408		2SC2878(B)-F	E3E4Y3	C459		CD04BJ1H010M		J3		E03-0398-05	E3E4E1	
Q403-408		2SC2878(B)-F	K5K6P5	C501-504		CC73GCH1H101J		J5		E03-0325-05	X4X2	
Q403-408	*	2SC2878(B)-F	P6Y4X4	C505,506		CK73GB1H102K		J20		E63-1388-05		
Q409	*	KRA103M-P	E3E4Y3	C507,508		CC73GCH1H101J		J21		E56-0060-05		
Q409	*	KRA103M-P	K5K6P5	C509		CC73GCH1H471J		J64		E11-0983-05		
Q410		DTA124EUA		C510,511		CC73GCH1H101J			△	F1	F05-4025-05	E1E2E3
Q411,412		2SC2878(B)-F	E3E4Y3	C515		CC73GCH1H221J			△	F1	F05-4025-05	E4X2X4
Q411,412		2SC2878(B)-F	K5K6P5	C516		CK73FB0J106K			△	F1	F05-4025-05	Y3Y4
Q411,412		2SC2878(B)-F	P6Y4X4	C517		CC73GCH1H221J			△	F1	F50-0078-05	K5K6P5
Q501,502		2SC4213(B)-F		C518		CC73GCH1H561J			△	F1	F50-0078-05	K7K8P7
Q512		2SC4081(R,S)		C519		CD04BJ1H101M			△	F1	F50-0078-05	P6P8
Q701,702		2SC2878(B)-F		C520		CC73GCH1H220J			△	F2	F06-1022-05	E1E2E3
Q703-706		2SA992(F,E)		C521		CK73GB1H152K			△	F2	F06-1022-05	E4X2X4
Q707,708		2SC2631(R,S)		C521		CK73GB1H152K			△	F2	F06-1022-05	Y3Y4
Q709,710		2SA1123(R,S)		C521		CK73GB1H152K			△	F2	F50-0220-05	K5K6P5
Q711,712		2SC2631(R,S)		C522,523		CK73GB1H102K			△	F2	F50-0220-05	K7K8P7
Q714		2SC1845(F,E)		C524		CC73GCH1H471J			△	F2	F50-0220-05	P6P8
Q716	*	KTC3200-P		C536		CK73GB1H182K			△	F3	F50-0220-05	Y3Y4
DISPLAY (X14-7900-13/X14-7980-10)				C538		CK73GB1H102K						
D734		B30-2545-05		C540		CD04BJ1H220M						
D741-745		B30-2545-05	K5K6P5	C544,545		CK73GB1H103K						
D741-745		B30-2545-05	K7K8P7	C550		CK73GB1A105K						
D741-745		B30-2545-05	P6P8X2	C701		CC73GCH1H221J						
D741-745		B30-2545-05	Y3Y4X4	C702		CD04BJ1H101M						
D741-745		C703,704		C705		CK73GB1H102K						
D741-745		B30-2651-05	E2	C741		CC73GCH1H181J						
D741-745		B30-2651-05	E3E4E1	C761-766		CK73EB1E105K						
D753		B30-2651-05		C777		CK73GB1H103K						
D755		B30-2545-05	K5K6P5	C778		CK45FB1H102K						
D755		B30-2545-05	K7K8P7	C779		CC45FCH1H101J						
D755		C780		C791		C779						
D755		B30-2545-05	P6P8X2	C792		CD04AT0J470M						
D755		B30-2545-05	Y3Y4X4	C793,794		CD04BJ1H220M						
D755		B30-2651-05	E2	C794		CK45FF1H103Z						
D755		B30-2651-05	E3E4E1	C811		CK45FF1H103Z						
C101		CC45FCH1H101J		C811		E1E2X2						
C103		CK73GB1H103K		C812,813		E3E4X4						
C104		CC73GCH1H101J		C812,813		E1E2X2						
C105		CC45FCH1H101J		C814		E3E4X4						
C105		CC45FCH1H101J		C814		E1E2X2						
C401		CK45FE1H103P		C815		E3E4X4						
C402		CD04BJ1E222M1	E1E2X2	C815		E1E2X2						
C402		CD04BJ1E222M1	E3E4X4	C816		E3E4X4						
C402		CD04BJ1E222M1	K5K6P5	C816		CK45FB1H561K						
C402		CD04BJ1E222M1	K7K8P7	C817		CK45FB1H561K						
C402	*	CD04BJ1E222M1	P6P8	C817		E1E2X2						
C402	*	CD04BJ1V222M1	Y3Y4	C818		E3E4X4						
C403		CD04BJ1E102M1	E1E2X2	C818		E1E2X2						
C403		CD04BJ1E102M1	E3E4X4	C819		E3E4X4						
C403		CD04BJ1E102M1	K5K6P5	C819		E1E2X2						
C403	*	CD04BJ1E102M1	K5K6P5	C817		E1E2X2						
C403	*	CD04BJ1E102M1	P6P8	C817		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C818		E3E4X4						
C403	*	CD04BJ1V222M1	E1E2X2	C818		E1E2X2						
C403	*	CD04BJ1V222M1	E3E4X4	C819		E1E2X2						
C403	*	CD04BJ1V222M1	K5K6P5	C819		E1E2X2						
C403	*	CD04BJ1V222M1	K7K8P7	C817		E1E2X2						
C403	*	CD04BJ1V222M1	P6P8	C817		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C832		E1E2X2						
C403	*	CD04BJ1V222M1	E3E4X4	C833		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C841		E1E2X2						
C403	*	CD04BJ1V222M1	K7K8P7	C841		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C831		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C831		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4X4	C832		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C833		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C841		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C841		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C832		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4X4	C833		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C841		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C841		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C841		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C842		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4X4	C842		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C842		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C843		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C843		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C844		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4X4	C844		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C845		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C845		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C845		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C845		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4X4	C846		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C846		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C846		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C846		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C847		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4X4	C847		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C847		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C847		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C847		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C848		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4X4	C848		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C848		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C848		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C848		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C849		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4X4	C849		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C849		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C849		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C849		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C850		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4X4	C850		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C850		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C850		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C850		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C851		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4X4	C851		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C851		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C851		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C851		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C852		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4X4	C852		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C852		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C852		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C852		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C853-855		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4E1	C853-855		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C853-855		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C853-855		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C853-855		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C854		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4E1	C854		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C854		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C854		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C854		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C855		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4E1	C855		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C855		E3E4X4						
C403	*	CD04BJ1V222M1	K7K8P7	C855		E3E4X4						
C403	*	CD04BJ1V222M1	P6P8	C855		E3E4X4						
C403	*	CD04BJ1V222M1	Y3Y4	C856,857		E3E4X4						
C403	*	CD04BJ1V222M1	E3E4E1	C856,857		E3E4X4						
C403	*	CD04BJ1V222M1	K5K6P5	C856,857		E3E4X4						
C403	*	CD04BJ1V										

L : Scandinavia
Y : PX(Far East, Hawaii)
V : AAFFS(Europe)

K: USA
T: England
X: Australia

P : Canada
E : Europe
O : Russia

R : Mexico
G : Germany
H : Korea

C: China
V: China(Shanghai)
M: Other Areas

1: Malaysia

 indicates safety critical components

KRF-V8090D/X9090D/VR-9560/9080

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

11

Ref. No	New Parts	Parts No.	Desti- nation	Ref. No	New Parts	Parts No.	Desti- nation	Ref. No	New Parts	Parts No.	Desti- nation
R536,537		RK73GB2A103J		IC74		BU2090					
R538		RK73GB2A223J		IC78	*	LC75711NED					
R539		RK73GB2A104J		IC79		XC6202P502PRN					
R540		RK73GB2A101J		IC81		BU1924F	E1E2X2				
R541		RK73GB2A474J		IC81		BU1924F	E3E4X4				
R542		RK73GB2A183J		IC83		S-80840CNY-GZ					
R543,544		RK73GB2A103J		IC84		S-80840CNY-GZ					
R545		RK73GB2A222J		IC90	*	MN101C49HYF	Y3Y4				
R776		RD14NB2E100J		IC90	*	MN101C49HYF	E3E4Y3				
R779		RK73GB2A333J		IC90	*	MN101C49HYF	K5K6P5				
R780		RD14NB2E100J		IC90	*	MN101C49HYF	K7K8P7				
R782		RK73GB2A303J		IC90	*	MN101C49HYF					
R801,802		RK73GB2A331J		IC401		MN101C49HYF	P6P8				
R803		RK73GB2A104J		IC402		MN101C49HYF	Y4X4				
R805		RK73GB2A104J		IC501,502		MN101C49HYH	E1E2X2				
R807,808		RK73GB2A103J		Q451		KIA7812API-UP					
R834		RD14NB2E332J	Y3Y4	Q512		KIA7912API-UP					
R847		RK73GB2A101J		Q731		BA4560F					
R894		RK73GB2A101J		Q776		2SC1740S(Q,R)					
R896-898		RK73GB2A101J		Q841		2SC4081(R,S)					
R910,911		RK73GB2A104J		Q842		DTC113ZSA					
R915		RK73GB2A101J		Q843		2SC1740S(Q,R)					
R922-924		RK73GB2A101J		TH1		Q777,778					
R926		RK73GB2A101J		A791		DTC124ESA					
R935		RK73GB2A101J		A791		2SC1740S(Q,R)					
R938,939		RK73GB2A101J		A791		2SA933AS(Q,R)					
R941-945		RK73GB2A101J		W02-4599-05		DTC113ZSA					
R951,952		RK73GB2A104J		W02-4599-05		MF-R090-99					
R954		RK73GB2A104J		W02-4599-05							
R955,956		RK73GB2A101J		W02-4599-05							
R967-969		RK73GB2A104J		W02-4599-05							
R970		RK73GB2A153J		W02-4599-05							
R971,972		RK73GB2A104J		Y3Y4							
R974,975		RK73GB2A104J									
R977		RK73GB2A123J									
R977		RK73GB2A273J									
R977		RK73GB2A273J									
R993		RK73GB2A101J									
R997		RD14NB2E1R0J									
R999		RK73GB2A472J									
△ K451		S76-0107-05									
△ K451		S76-0107-05									
△ K451		S76-0107-05									
△ K451		S76-0110-05									
△ K451		S76-0110-05									
△ K451		S76-0110-05									
△ K451		S76-0110-05									
△ K451		S76-0110-05									
△ K451		S76-0110-05									
△ K451		S76-0110-05									
△ S1		S62-0001-05									
△ S2		S68-0142-05									
△ S2		S68-0142-05									
△ S2		S68-0142-05									
S701-708		S70-0086-05									
S716-725		S70-0086-05									
S731-733		S70-0086-05									
S761,762		T99-0696-05									
S763		T99-0664-05									
△ D401		D2SBA207009F01									
△ D451,452		1SS133									
△ D453		S1ZB20(7101)									
△ D454		1SS133									
△ D455		RB721Q									
△ D791		1SS302-F									
△ D791		1SS133									
△ D801-806		1SS133									
△ D831		1SS133									
△ D841		RB721Q									
△ D842		1SS133									
△ D843		RB721Q									
D844		1SS133									
D846		1SS133									
D961-964		1SS133									
ED78		HNA-16MM55T									
IC45		BA05T									

L : Scandinavia
Y : PX(Far East,Hawaii)
Y : AAFES(Europe)

K : USA
T : England
X : Australia

P : Canada
E : Europe
Q : Russia

R : Mexico
G : Germany
H : Korea

C : China
V : China(Shanghai)
M : Other Areas

I : Malaysia

△ indicates safety critical components

KRF-V8090D/X9090D/VR-9560/9080

SPECIFICATIONS

AUDIO section

For VR-9080

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

FRONT (20 ~ 20 kHz, 0.09 % T.H.D., at 8 Ω one channel driven)	100 W + 100 W
CENTER (20 ~ 20 kHz, 0.09 % T.H.D., at 8 Ω one channel driven)	100 W
SURROUND (20 ~ 20 kHz, 0.7 % T.H.D., at 8 Ω one channel driven)	100 W + 100 W
SURROUND BACK (20 ~ 20 kHz, 0.7 % T.H.D., at 8 Ω one channel driven)	100 W + 100 W

For KRF-X9090D

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

IEC (20 Hz ~ 20 kHz, 0.09% T.H.D., at 8 Ω)	100 W + 100 W
DIN (1 kHz at 8 Ω)	120 W + 120 W

Effective power output during STEREO operation

(1 kHz, 10% T.H.D., at 8 Ω)	130 W + 130 W
-----------------------------	---------------

Effective power output during SURROUND operation

FRONT (20 Hz ~ 20 kHz, 0.09 % T.H.D., at 8 Ω one channel driven)	100 W + 100 W
(1 kHz, 0.7 % T.H.D., at 8 Ω one channel driven) ..	120 W + 120 W
(1 kHz, 10 % T.H.D., at 8 Ω one channel driven) ...	130 W + 130 W
CENTER (20 Hz ~ 20 kHz, 0.09 % T.H.D., at 8 Ω one channel driven)	100 W
(1 kHz, 0.7 % T.H.D., at 8 Ω one channel driven)	120 W
(1 kHz, 10 % T.H.D., at 8 Ω one channel driven)	130 W
SURROUND (20 Hz ~ 20 kHz, 0.7 % T.H.D., at 8 Ω one channel driven)	100 W + 100 W
(1 kHz, 0.7 % T.H.D., at 8 Ω one channel driven)	120 W + 120 W
(1 kHz, 10 % T.H.D., at 8 Ω one channel driven)	130 W + 130 W
SURROUND BACK (20 Hz ~ 20 kHz, 0.7 % T.H.D., at 8 Ω one channel driven)	100 W + 100 W
(1 kHz, 0.7 % T.H.D., at 8 Ω one channel driven)	120 W + 120 W
(1 kHz, 10 % T.H.D., at 8 Ω one channel driven)	130 W + 130 W

common

Total harmonic distortion	0.009 % (1 kHz, 50 W, 8 Ω)
Frequency response	
CD/DVD	10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB
PHONO 'RIAA' response	40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB
Maximum input level	
PHONO (MM)	40 mV, 1 % T.H.D., at 1 kHz
Signal to noise ratio (IHF'66)	
PHONO (MM)	75 dB
CD/DVD	95 dB
Input sensitivity / impedance	
PHONO (MM)	4 mV / 47 kΩ
CD/DVD, MD/TAPE, AV AUX, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH	300 mV / 47 kΩ
Output level / impedance	
REC OUT (MD/TAPE)	300 mV / 1 kΩ
PRE OUT (FRONT)	1 V / 500 Ω
PRE OUT (CENTER)	1 V / 500 Ω
PRE OUT (SURROUND)	1 V / 500 Ω
PRE OUT (SURROUND BACK)	1 V / 500 Ω
PRE OUT (SUBWOOFER)	1 V / 500 Ω
Tone control	
BASS	±10 dB (at 100 Hz)
TREBLE	±10 dB (at 10 kHz)
Loudness control	
VOLUME at -30 dB level	+6 dB (100 Hz)

DIGITAL AUDIO section

Sampling frequency 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input level / impedance / wave length

Optical -15 dBm ~ -24 dBm, 660 nm ±30 nm

Coaxial 0.5 Vp-p / 75 Ω

Output level / impedance / wave length

Optical -21 dBm ~ -15 dBm, 660 nm ±30 nm

VIDEO section

VIDEO inputs / outputs

VIDEO (composite) 1 Vp-p / 75 Ω

S VIDEO inputs / outputs

S VIDEO (luminance signal) 1 Vp-p / 75 Ω

S VIDEO (chrominance signal) 0.286 Vp-p / 75 Ω

COMPONENT VIDEO inputs / outputs

COMPONENT VIDEO (luminance signal) 1 Vp-p / 75 Ω

COMPONENT VIDEO (CB/CR-signal)

VR-9080 0.64 Vp-p / 75 Ω

KRF-X9090D 0.7 Vp-p / 75 Ω

FM tuner section

Tuning frequency range 87.5 MHz ~ 108.0 MHz

Usable sensitivity (MONO)

VR-9080 1.3 μV (75 Ω) / 13.2 dBf (75 kHz dev, SINAD 30 dB)

KRF-X9090D 1.6 μV (75 Ω) / 15.2 dBf (75 kHz dev, SINAD 30 dB)

50 dB quieting sensitivity

STEREO 28 μV (75 Ω) / 40.2 dBf (75 kHz dev)

Total harmonic distortion

MONO (1 kHz, 75 kHz dev) 0.5% (65 dBf input)

STEREO (1 kHz, 67.5 + 67.5 kHz dev) 0.7% (65 dBf input)

Signal to noise ratio

MONO (1 kHz, 75 kHz dev) 75 dB (65 dBf input)

STEREO (1 kHz, 67.5 + 67.5 kHz dev) 68 dB (65 dBf input)

Stereo separation (1 kHz) 40 dB

Selectivity (±400 kHz) VR-9080 70 dB

KRF-X9090D 50 dB

Frequency response (30 Hz ~ 15 kHz) +0.5 dB, -3.0 dB

AM tuner section

Tuning frequency range

10 kHz step (VR-9080) 530 kHz ~ 1,700 kHz

10 kHz step (KRF-X9090D) 530 kHz ~ 1,610 kHz

9 kHz step (KRF-X9090D) 531 kHz ~ 1,602 kHz

Usable sensitivity (30% mod, S/N 20 dB) 16 μV / (600 μV/m)

Signal to noise ratio (30% mod, 400 Hz) 50 dB (60 dBμV EMF input)

GENERAL

Power consumption VR-9080 3.4 A

KRF-X9090D 300 W

Standby Power consumption less than 2.0 W

AC outlet (SWITCHED)

VR-9080 total 150 W, 1.25 A max.

KRF-X9090D total 90 W max.

Dimensions W : 440 mm (17-5/16")

H : 166 mm (6-9/16")

D : 396 mm (15-9/16")

Weight (Net) 12.1 kg (26.7 lb)

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

